

**BUTTERWORTH
SUPPLY
COMPANY**

PHILADELPHIA, PA.



**PLUMBING
SPECIALTIES**





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COMPANY

GUTTERWORTH SUPPLY CO.

1001 PENNSYLVANIA AVENUE

PHILADELPHIA, PA.

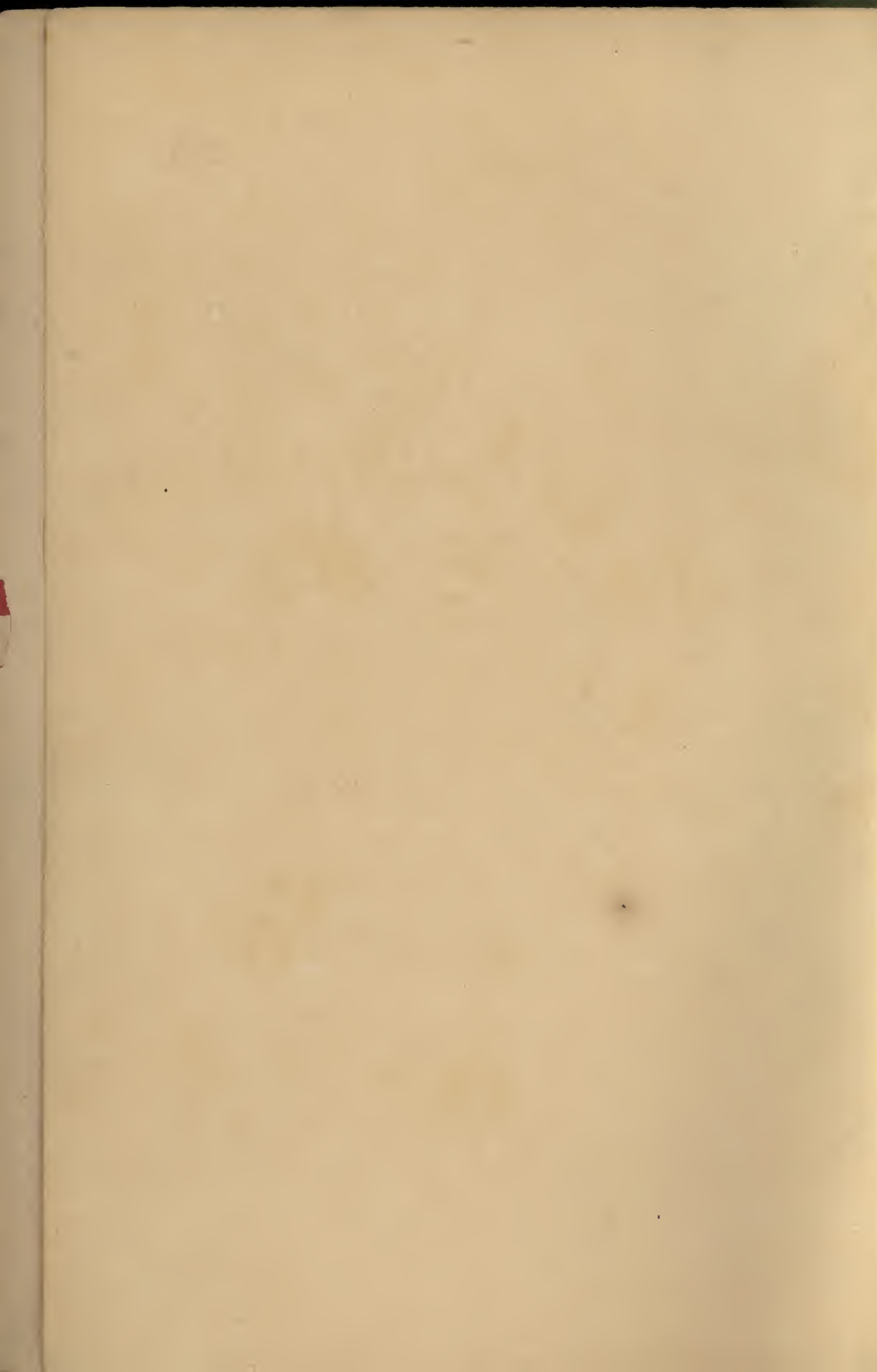
PLUMBERS'
SPECIALTIES

MANUFACTURERS OF
COPPER, BRASS, IRON

6770

MANUFACTURERS OF
COPPER, BRASS, IRON

MANUFACTURERS OF



CATALOGUE B

BUTTERWORTH SUPPLY CO.

4200 KENSINGTON AVENUE

PHILADELPHIA, PA.

**PLUMBERS'
SPECIALTIES**

Made of BRASS, RUBBER,
LEATHER, FIBRE, ETC.

**PLUMBERS' TOOLS, HOSE FITTINGS,
SCREWS AND REPAIRS**

WASHERS A SPECIALTY

COPYRIGHT 1914
BY
BUTTERWORTH SUPPLY CO.
4200 KENSINGTON AVE.
PHILADELPHIA, PA.

**BUTTERWORTH
SUPPLY CO.**



**PHILADELPHIA
PA.**



GREETING TO THE PLUMBER



IN PRESENTING this new "Catalogue B" to the trade, we feel that with twelve years' experience we are now better prepared than ever before to take care of Plumbers' requirements in our line.

"Catalogue B" is not merely a picture book of Plumbers' Specialties, but it illustrates goods we manufacture and **KEEP ON OUR SHELVES FOR YOUR IMMEDIATE REQUIREMENTS.**

With very rare exceptions we can fill an order from stock in less than an hour from the time we receive it.

We recently built an entire new plant at our present address, which we devote exclusively to the production of the goods illustrated in this Catalogue.

BUTTERWORTH SUPPLY CO.

4200 KENSINGTON AVE.

PHILADELPHIA, PA.

*Our goods and
our prices are right.*

RUBBER GOODS

WE have experimented with Rubber Goods for a great many years, and have made a special study of this important branch of the Plumbers' Specialty line. The result is, that we have a reputation on our Rubber Goods of which we are proud.

Our rubber molds are made of the best materials, and by the best mechanics, and we use the best grades of rubber.

Although our Rubber Goods are far superior to some of the imitations on the market, our prices are low.

UNION WASHERS

(CUTS FULL SIZE)

Union Washers are used for making tight joints in iron pipe unions. They are made of rubber, fibre and leather. We sell far more rubber than fibre or leather, as they are made of a special compound to stand hot water and steam, and yet they are very pliable. Our $\frac{3}{8}$ inch rubber union washer will stretch to $\frac{1}{2}$ inch size, $\frac{1}{2}$ inch will stretch to $\frac{3}{4}$ inch size, and so on. It is therefore unnecessary to carry a stock of other makes to fit large size and odd size unions.

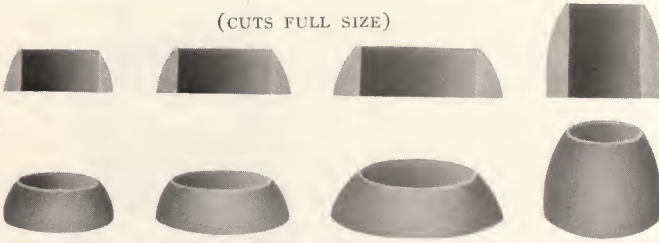
SIZE OF UNION.	RUBBER UNION WASHERS.	FIBRE UNION WASHERS.	LEATHER UNION WASHERS.
$\frac{1}{4}$ Inch.....	No. 1. \$0.80 per 100	No. 11. \$0.80 per 100	No. 31. \$0.80 per 100
$\frac{3}{8}$ Inch.....	No. 2. .80 per 100	No. 12. .80 per 100	No. 32. .80 per 100
$\frac{1}{2}$ Inch.....	No. 3. .80 per 100	No. 13. .80 per 100	No. 33. .80 per 100
$\frac{3}{4}$ Inch.....	No. 4. 1.00 per 100	No. 14. 1.10 per 100	No. 34. 1.10 per 100
1 Inch.....	No. 5. 1.40 per 100	No. 15. 1.60 per 100	No. 35. 1.60 per 100
$1\frac{1}{4}$ Inches....	No. 6. 2.00 per 100	No. 16. 2.30 per 100	No. 36. 2.30 per 100
$1\frac{1}{2}$ Inches....	No. 7. 2.50 per 100	No. 17. 2.50 per 100	No. 37. 4.00 per 100
2 Inches....	No. 8. 3.00 per 100	No. 18. 3.00 per 100	No. 38. 5.00 per 100

BUY BY THOUSANDS. IT IS CHEAPER

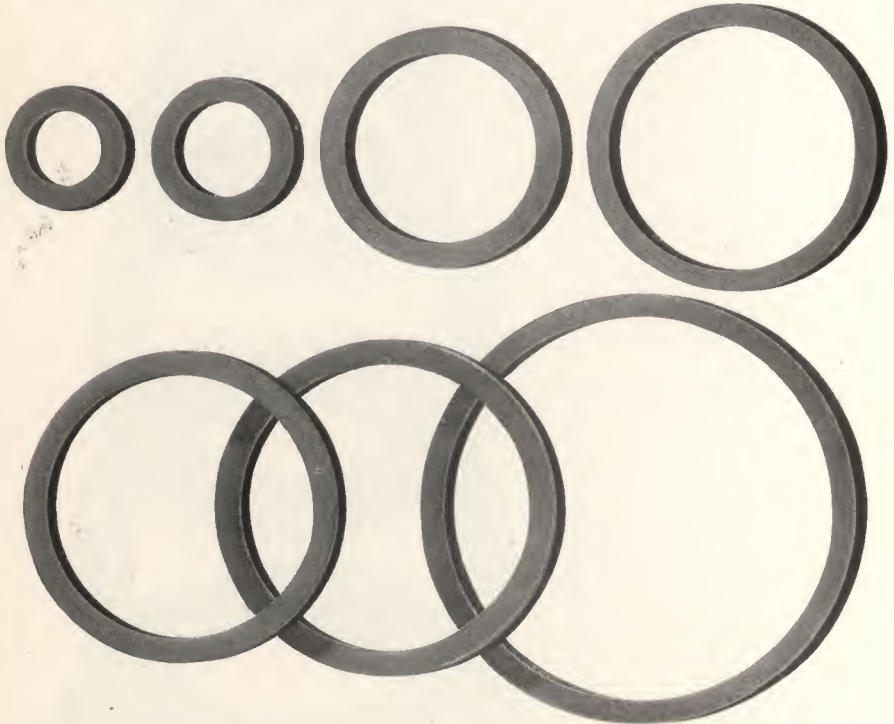


BEVELED RUBBER SLIP JOINT WASHERS

(CUTS FULL SIZE)

No. 80
\$3.00 Per 100No. 84
\$3.00 Per 100No. 88
\$4.00 Per 100No. 92
\$5.00 Per 100**SQUARE RUBBER SLIP JOINT WASHERS**

(CUTS FULL SIZE)

No. 101
 $\frac{3}{8}$ Inch
\$1.60 Per 100No. 105
 $\frac{1}{2}$ Inch
\$1.80 Per 100No. 109
1 Inch
\$2.00 Per 100No. 113
 $1\frac{1}{4}$ Inches
\$2.20 Per 100No. 117. $1\frac{3}{8}$ Inches
\$2.40 Per 100No. 121. $1\frac{1}{2}$ Inches
\$3.00 Per 100No. 125. 2 Inches
\$4.00 Per 100**RUBBER GAUGE GLASS WASHERS (CUTS FULL SIZE)**

No. 151.	$\frac{1}{2}$ Inch.....	Per 100
No. 155.	$\frac{5}{8}$ Inch.....	\$2.00
No. 159.	$\frac{3}{4}$ Inch.....	2.00

BUTTERWORTH BIBB WASHERS

MADE OF RUBBER AND GRAPHITE. FOR HOT OR COLD WATER
(CUTS FULL SIZE)



No. 201
3/8 Inch

No. 205
1/2 Inch

No. 209
5/8 Inch

No. 213
3/4 Inch

No. 217
1 Inch

Butterworth Bibb Washers are made of rubber, graphite and other ingredients, compounded and cured by a secret process. Every genuine Butterworth Bibb Washer has "Butterworth" molded on it. They represent the highest standard of Bibb Washer, and they will positively stand hot water under every condition. They may also be used on cold water bibbs, and by using them exclusively for both hot and cold water, the Plumber is not required to keep a stock of cold water bibb washers. This saves much time and annoyance, as there is no danger of having two kinds of washers mixed.

		Per 100
No. 201.	3/8 Inch Butterworth Bibb Washer, 1/8 Inch Thick.....	\$1.30
No. 205.	1/2 Inch Butterworth Bibb Washer, 1/8 Inch Thick.....	1.30
No. 209.	5/8 Inch Butterworth Bibb Washer, 1/8 Inch Thick.....	1.30
No. 213.	3/4 Inch Butterworth Bibb Washer, 1/8 Inch Thick.....	1.30
No. 217.	1 Inch Butterworth Bibb Washer, 1/8 Inch Thick.....	1.80.

RUBBER BIBB WASHERS

MADE OF SOFT PLIABLE RUBBER FOR COLD WATER BIBBS,
BALL COCKS, ETC.

(CUTS FULL SIZE)



		Per 100
No. 251.	3/8 Inch Rubber Bibb Washer, 1/8 Inch Thick.....	\$1.10
No. 255.	1/2 Inch Rubber Bibb Washer, 1/8 Inch Thick.....	1.10
No. 259.	5/8 Inch Rubber Bibb Washer, 1/8 Inch Thick.....	1.10
No. 263.	3/4 Inch Rubber Bibb Washer, 1/8 Inch Thick.....	1.10
No. 267.	1 Inch Rubber Bibb Washer, 1/8 Inch Thick.....	1.70

BUY BY THOUSANDS. IT IS CHEAPER

GRAY FLEX BIBB WASHERS

(CUTS FULL SIZE)



Basin Size $\frac{3}{8}$ Inch $\frac{1}{2}$ Inch $\frac{5}{8}$ Inch $\frac{3}{4}$ Inch

Gray Flex Bibb Washers are far superior to Red Fibre. Red Fibre Bibb Washers may be easily destroyed by paring off layer after layer of the compressed paper, but our Gray Flex Bibb Washers are a higher type of fibre, produced from an entirely different grade of raw material, that is prepared under patents.

Unlike Red Fibre Bibb Washers they are not made in layers. It is almost impossible to cut them apart with a knife and yet they are flexible enough to make a perfect seat under all conditions.

No.	Size	Thickness	Per 100	No.	Size	Thickness	Per 100
No. 271.	Basin Size, $\frac{1}{8}$ Inch....	$\frac{1}{8}$ Inch....	\$0.80	No. 285.	Basin Size, $\frac{3}{16}$ Inch....	$\frac{3}{16}$ Inch....	\$1.00
No. 273.	$\frac{3}{8}$ Inch, $\frac{1}{8}$ Inch....	$\frac{1}{8}$ Inch....	.80	No. 287.	$\frac{3}{8}$ Inch, $\frac{3}{16}$ Inch....	$\frac{3}{16}$ Inch....	1.00
No. 275.	$\frac{1}{2}$ Inch, $\frac{1}{8}$ Inch....	$\frac{1}{8}$ Inch....	.80	No. 289.	$\frac{1}{2}$ Inch, $\frac{3}{16}$ Inch....	$\frac{3}{16}$ Inch....	1.00
No. 277.	$\frac{5}{8}$ Inch, $\frac{1}{8}$ Inch....	$\frac{1}{8}$ Inch....	.80	No. 291.	$\frac{5}{8}$ Inch, $\frac{3}{16}$ Inch....	$\frac{3}{16}$ Inch....	1.00
No. 279.	$\frac{3}{4}$ Inch, $\frac{1}{8}$ Inch....	$\frac{1}{8}$ Inch....	.80	No. 293.	$\frac{3}{4}$ Inch, $\frac{3}{16}$ Inch....	$\frac{3}{16}$ Inch....	1.00

RED FIBRE BIBB WASHERS

(CUTS FULL SIZE)



Basin Size				Basin Size			
$\frac{3}{8}$ Inch		$\frac{1}{2}$ Inch		$\frac{5}{8}$ Inch		$\frac{3}{4}$ Inch	
No.	Size	Thickness	Per 100	No.	Size	Thickness	Per 100
No. 297.	$\frac{1}{8}$ Inch	$\frac{1}{8}$ Inch	\$0.60	No. 321.	$\frac{3}{16}$ Inch	$\frac{3}{16}$ Inch	\$0.80
No. 301.	$\frac{3}{8}$ Inch	$\frac{1}{8}$ Inch	.60	No. 323.	$\frac{3}{8}$ Inch	$\frac{3}{16}$ Inch	.80
No. 305.	$\frac{1}{2}$ Inch	$\frac{1}{8}$ Inch	.60	No. 325.	$\frac{1}{2}$ Inch	$\frac{3}{16}$ Inch	.80
No. 309.	$\frac{5}{8}$ Inch	$\frac{1}{8}$ Inch	.60	No. 327.	$\frac{5}{8}$ Inch	$\frac{3}{16}$ Inch	.80
No. 313.	$\frac{3}{4}$ Inch	$\frac{1}{8}$ Inch	.60	No. 329.	$\frac{3}{4}$ Inch	$\frac{3}{16}$ Inch	.80
No. 317.	1 Inch	$\frac{1}{8}$ Inch	1.00	No. 331.	1 Inch	$\frac{3}{16}$ Inch	1.20

FIBRE OIL CAN WASHER

(CUT FULL SIZE)



No. 334. Fibre Oil Can Washer. Per 100 \$0.60

FIBRE SPINDLE WASHERS

(CUTS FULL SIZE)



No. 337. $\frac{3}{8}$ Inch Fibre Spindle Washer \$0.60
 No. 339. $\frac{1}{2}$ Inch Fibre Spindle Washer60

BUY BY THOUSANDS. IT IS CHEAPER

LEATHER BIBB WASHERS

(CUTS FULL SIZE)



No. 349	No. 351	No. 355	No. 359	No. 363	No. 367
Basin Size	$\frac{3}{8}$ Inch	$\frac{1}{2}$ Inch	$\frac{5}{8}$ Inch	$\frac{3}{4}$ Inch	1 Inch

						Per 100
No. 349.	Basin Size	Leather Bibb Washer,	$\frac{1}{8}$ Inch Thick.....			\$0.50
No. 351.	$\frac{3}{8}$ Inch	Leather Bibb Washer,	$\frac{1}{8}$ Inch Thick.....			.50
No. 355.	$\frac{1}{2}$ Inch	Leather Bibb Washer,	$\frac{1}{8}$ Inch Thick.....			.50
No. 359.	$\frac{5}{8}$ Inch	Leather Bibb Washer,	$\frac{1}{8}$ Inch Thick.....			.50
No. 363.	$\frac{3}{4}$ Inch	Leather Bibb Washer,	$\frac{1}{8}$ Inch Thick.....			.50
No. 367.	1	Inch Leather Bibb Washer,	$\frac{1}{8}$ Inch Thick.....			.70

RED FIBRE TOP BIBB WASHERS

(CUTS FULL SIZE)

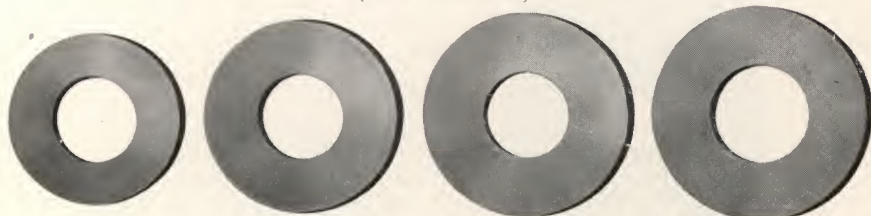


No. 371	No. 373	No. 375	No. 377
$\frac{3}{8}$ Inch	$\frac{1}{2}$ Inch	$\frac{5}{8}$ Inch	$\frac{3}{4}$ Inch

				Per 100
No. 371.	$\frac{3}{8}$ Inch	Red Fibre Top Bibb Washer.....		\$1.00
No. 373.	$\frac{1}{2}$ Inch	Red Fibre Top Bibb Washer.....		1.00
No. 375.	$\frac{5}{8}$ Inch	Red Fibre Top Bibb Washer.....		1.00
No. 377.	$\frac{3}{4}$ Inch	Red Fibre Top Bibb Washer.....		1.20

BRASS TOP BIBB WASHERS

(CUTS FULL SIZE)



No. 381	No. 383	No. 385	No. 387
$\frac{3}{8}$ Inch	$\frac{1}{2}$ Inch	$\frac{5}{8}$ Inch	$\frac{3}{4}$ Inch

				Per 100
No. 381.	$\frac{3}{8}$ Inch	Brass Top Bibb Washer.....		\$2.00
No. 383.	$\frac{1}{2}$ Inch	Brass Top Bibb Washer.....		2.00
No. 385.	$\frac{5}{8}$ Inch	Brass Top Bibb Washer.....		2.00
No. 387.	$\frac{3}{4}$ Inch	Brass Top Bibb Washer.....		2.00

BUY BY THOUSANDS. IT IS CHEAPER

No. 399
Basin
Size

No. 401
 $\frac{3}{8}$ Inch

No. 403
 $\frac{7}{16}$ Inch

No. 405
 $\frac{1}{2}$ Inch

No. 407
 $\frac{9}{16}$ Inch

No. 409
 $\frac{5}{8}$ Inch

No. 411
 $1\frac{1}{16}$ Inch

No. 413
 $\frac{3}{4}$ Inch

No. 417
1 Inch

REGULAR TOP BIBB WASHERS

(CUTS FULL SIZE)

These are Regular Top Bibb Washers, made of a special Cloth Both Sides and Cloth Insertion Packing, which has three layers of cloth and two layers of rubber. One layer of cloth is on the top, one on the bottom and one in the center. A layer of rubber is between each layer of cloth. The cloth used in the construction of this packing is the very best white duck, which gives the packing unusual strength.

Inferior packing is sometimes used for other purposes besides Top Bibb Washers, for cutting large rings and gaskets, and the old centers and other waste are accumulated by junk dealers.

This material, after becoming old and deteriorated, is often made up into worthless Top Bibb Washers. We do not use any of this kind of junk, but punch ours from fresh new stock.

Our long experience in making Top Bibb Washers enables us to make them of the highest class.

All our Top Bibb Washers have small holes in the center, and as the stock is first class, they will stretch over the stem of the bibb, always making it watertight. When they are made of poor material that will not stretch without breaking, it is necessary to make the holes in the center large, and they will drop on the stem and leak.

REGULAR TOP BIBB WASHERS

	Size Bibb	Outside Diameter	Per 100
No. 399.	Basin Size,	$\frac{7}{8}$ Inch....	\$0.70
No. 401.	$\frac{3}{8}$ Inch,	1 Inch....	.70
No. 403.	$\frac{7}{16}$ Inch,	$1\frac{1}{16}$ Inches..	.80
No. 405.	$\frac{1}{2}$ Inch,	$1\frac{1}{8}$ Inches..	.80
No. 407.	$\frac{9}{16}$ Inch,	$1\frac{3}{16}$ Inches..	.90
No. 409.	$\frac{5}{8}$ Inch,	$1\frac{1}{4}$ Inches..	.90
No. 411.	$1\frac{1}{16}$ Inch,	$1\frac{7}{16}$ Inches..	1.00
No. 413.	$\frac{3}{4}$ Inch,	$1\frac{3}{8}$ Inches..	1.00
No. 417.	1 Inch,	$1\frac{5}{8}$ Inches..	1.20

BUY BY THOUSANDS
IT IS CHEAPER

TIP TOPPO TOP BIBB WASHERS

(CUTS FULL SIZE)

Tip Toppo Top Bibb Washers are for the Plumber who is looking for washers giving unusually long service, and something better than regular Top Bibb Washers.

They are made of eight layers of the finest grade of cloth fabric—no rubber layers. The only rubber in the washers is just enough rubber cement to hold the layers of cloth fabric together.

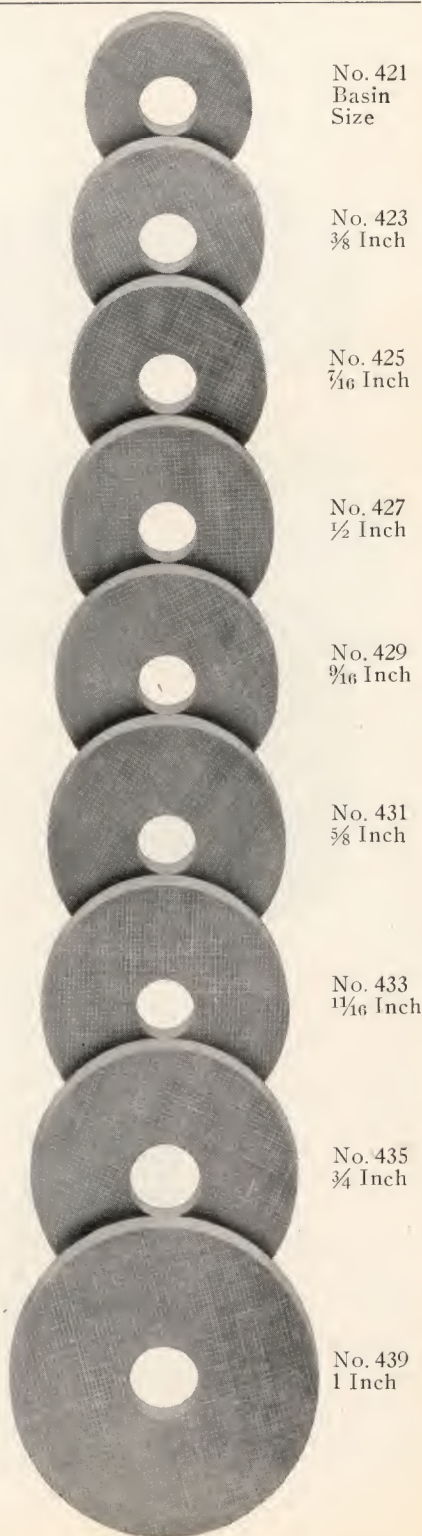
The friction is so strong that it is almost impossible to separate the eight layers with a knife. Many of our customers have been so well satisfied with these washers that they buy from us the material from which they are made, to be used in place of rubber sheet packing. We have this in rolls 36 inches wide and sell it in any length. See page 34.

TIP TOPPO TOP BIBB WASHERS

	Size Bibb	Outside Diameter	Per 100
No. 421.	Basin Size,	$\frac{7}{8}$ Inch....	\$2.00
No. 423.	$\frac{3}{8}$ Inch,	1 Inch....	2.00
No. 425.	$\frac{7}{16}$ Inch,	$1\frac{1}{16}$ Inches..	2.00
No. 427.	$\frac{1}{2}$ Inch,	$1\frac{1}{8}$ Inches..	2.00
No. 429.	$\frac{9}{16}$ Inch,	$1\frac{3}{16}$ Inches..	2.00
No. 431.	$\frac{5}{8}$ Inch,	$1\frac{1}{4}$ Inches..	2.00
No. 433.	$1\frac{1}{16}$ Inch,	$1\frac{5}{16}$ Inches..	2.00
No. 435.	$\frac{3}{4}$ Inch,	$1\frac{3}{8}$ Inches..	2.00
No. 439.	1 Inch,	$1\frac{5}{8}$ Inches..	3.00

CUT SHOWING LAYERS OF TIP TOPPO TOP BIBB WASHERS

BUY BY THOUSANDS.
IT IS CHEAPER



No. 421
Basin
Size

No. 423
 $\frac{3}{8}$ Inch

No. 425
 $\frac{7}{16}$ Inch

No. 427
 $\frac{1}{2}$ Inch

No. 429
 $\frac{9}{16}$ Inch

No. 431
 $\frac{5}{8}$ Inch

No. 433
 $1\frac{1}{16}$ Inch

No. 435
 $\frac{3}{4}$ Inch

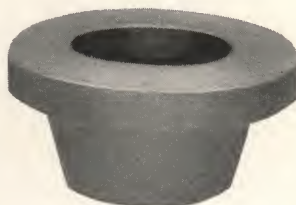
No. 439
1 Inch

RUBBER HOSE ATTACHMENT WASHERS

(CUTS FULL SIZE)



No. 441



No. 442

	Per Doz.
No. 441. Small Hose Attachment Washer.....	\$1.00
No. 442. Large Hose Attachment Washer.....	1.00

NOTE.—These Washers fit Hose Attachments illustrated on page 73.

SOLID BIBB DISCS

MADE OF HARD RUBBER

(CUTS FULL SIZE)

3/8"

1/2"

5/8"

3/4"

1"

1 1/4"

O.D.



		Per 100
No. 451.	3/8 Inch Solid Bibb Disc.....	\$1.50
No. 455.	1/2 Inch Solid Bibb Disc.....	1.50
No. 459.	5/8 Inch Solid Bibb Disc.....	1.60
No. 463.	3/4 Inch Solid Bibb Disc.....	1.80
No. 467.	1 Inch Solid Bibb Disc.....	2.60
No. 471.	1 1/4 Inches (O. D.) Solid Bibb Disc..	3.00

SCHOFIELD DISCS

BUTTERWORTH MAKE

(CUTS FULL SIZE)



No. 473
3/4 Inch Outside
Diameter



No. 475
7/8 Inch Outside
Diameter

These are made of Cloth Insertion, Cloth One Side Packing, 1/8 Inch Thick.

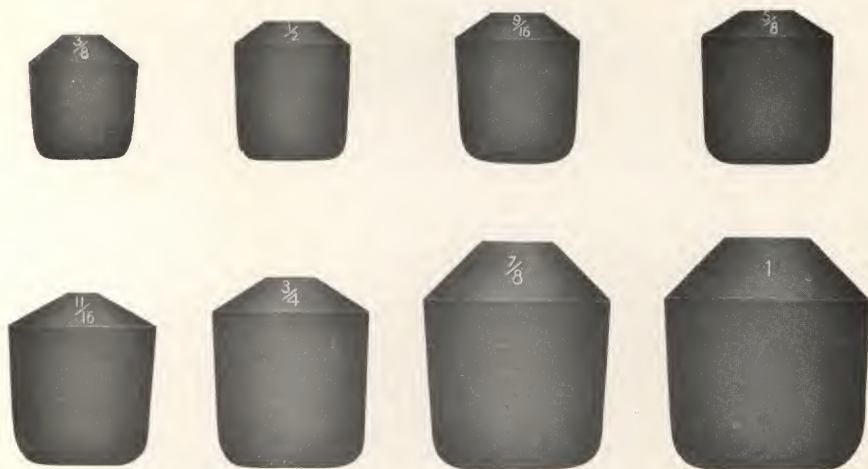
	Per 100
No. 473. 3/4 Inch Outside Diameter Schofield Disc (Butterworth Make)....	\$2.00
No. 475. 7/8 Inch Outside Diameter Schofield Disc (Butterworth Make)....	2.00

"BUTTERWORTH" FULLER BALLS

FOR HOT WATER

Blunt Pattern. Make a positive shut off. They allow a full water-way, and will not hammer.

(CUTS FULL SIZE)



Butterworth Fuller Balls are made of rubber, graphite and other ingredients, compounded and cured by a secret process. They represent the highest standard of Fuller Balls, and they will positively stand hot water under every condition. They may also be used on cold water bibbs, and by using them exclusively for both hot and cold water, the Plumber is not required to keep a stock of cold water Fuller Balls. This saves much time and annoyance as there is no danger of having two kinds of Fuller Balls mixed.

		Per 100
No. 481.	$\frac{3}{8}$ Inch Butterworth Fuller Ball (Color Black).....	\$4.00
No. 485.	$\frac{1}{2}$ Inch Butterworth Fuller Ball (Color Black).....	4.50
No. 487.	$\frac{9}{16}$ Inch Butterworth Fuller Ball (Color Black).....	4.80
No. 489.	$\frac{5}{8}$ Inch Butterworth Fuller Ball (Color Black).....	5.00
No. 491.	$\frac{11}{16}$ Inch Butterworth Fuller Ball (Color Black).....	6.00
No. 493.	$\frac{3}{4}$ Inch Butterworth Fuller Ball (Color Black).....	7.00
No. 495.	$\frac{7}{8}$ Inch Butterworth Fuller Ball (Color Black).....	8.50
No. 497.	1 Inch Butterworth Fuller Ball (Color Black).....	10.00

REGULAR FULLER BALLS

These are the same style as Butterworth Fuller Balls but are for cold water.

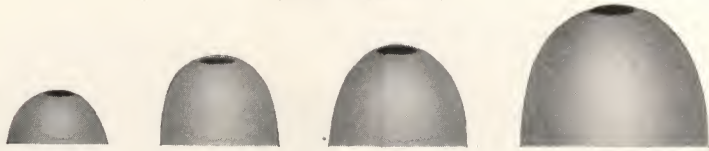
		Per 100
No. 561.	$\frac{3}{8}$ Inch Regular Fuller Ball (Color Black).....	\$2.00
No. 565.	$\frac{1}{2}$ Inch Regular Fuller Ball (Color Black).....	2.50
No. 569.	$\frac{5}{8}$ Inch Regular Fuller Ball (Color Black).....	3.00
No. 573.	$\frac{3}{4}$ Inch Regular Fuller Ball (Color Black).....	5.00
No. 577.	1 Inch Regular Fuller Ball (Color Black).....	7.00

BUY BY THOUSANDS. IT IS CHEAPER

PLAIN BUMPERS

MADE OF RUBBER

(CUTS FULL SIZE)

 $\frac{1}{2}$ Inch $\frac{5}{8}$ Inch $\frac{3}{4}$ Inch

1 Inch

These Bumpers have a recess for screws. The prices do not include screws. For prices of Screws see pages 102 and 103.

		Per 100
No. 601.	$\frac{1}{2}$ Inch Diameter Plain Bumper.....	\$1.40
No. 612.	$\frac{5}{8}$ Inch Diameter Plain Bumper.....	1.80
No. 623.	$\frac{3}{4}$ Inch Diameter Plain Bumper.....	2.50
No. 634.	1 Inch Diameter Plain Bumper.....	4.00

NOTE.—No. 612. $\frac{5}{8}$ Inch Diameter Plain Bumper will be sent unless otherwise specified.

TACK BUMPERS

(CUTS FULL SIZE)

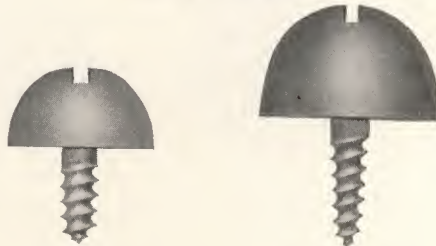
 $\frac{1}{2}$ Inch $\frac{5}{8}$ Inch $\frac{3}{4}$ Inch $\frac{7}{8}$ Inch

These Bumpers have the tacks fastened firmly in the rubber.

		Per 100
No. 641.	$\frac{1}{2}$ Inch Diameter Tack Bumper.....	\$1.80
No. 652.	$\frac{5}{8}$ Inch Diameter Tack Bumper.....	2.50
No. 657.	$\frac{3}{4}$ Inch Diameter Tack Bumper.....	3.00
No. 663.	$\frac{7}{8}$ Inch Diameter Tack Bumper.....	4.00

SCREW BUMPERS

(CUTS FULL SIZE)

 $\frac{3}{4}$ Inch $1\frac{1}{16}$ Inch.

These Bumpers have the screws fastened firmly in the rubber.

		Per 100
No. 671.	$\frac{3}{4}$ Inch Diameter Screw Bumper.....	\$4.50
No. 693.	$1\frac{1}{16}$ Inch Diameter Screw Bumper.....	7.00

LONG DOUBLE BUMPER**MADE OF RUBBER**

(CUT FULL SIZE)



This is a great improvement over the old style round Bumpers. As it is fastened by two screws instead of one it is firmer, and having a large flat surface it will not punch holes in wood against which it bumps, and it will not crack or destroy varnish or enamel. It has two recesses for screws or tacks. $\frac{1}{2}$ Inch x No. 5 Round Head Nickel Plated Brass Screws should be used.

The price does not include Screws. For prices of Screws see pages 102 and 103.

Per 100

No. 696. Long Double Bumper..... \$7.00

SEAT HINGE BUMPER**MADE OF RUBBER**

(CUT FULL SIZE)

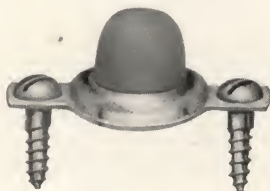


Per 100

No. 731. Seat Hinge Bumper..... \$5.00

NICKEL PLATED BUMPER

(CUT FULL SIZE)



This Bumper is sold complete with Nickel Plated Brass Holder, Rubber Bumper, and two Nickel Plated Brass Screws as illustrated.

Per 100

No. 741. Nickel Plated Bumper (complete as illustrated)..... \$10.00

RUBBER ELBOWS

LONG PATTERN



It has always been difficult to make a Rubber Elbow that would not split at the seam.

A piece of metal or wood is easily broken by making a V-shaped nick in it, and the same principle applies to a Rubber Elbow. If a little rubber is lacking at the seam, it makes a good start for a crack, and the Elbow will break completely apart. After having much trouble of this kind, which appeared unavoidable for a long time, we have at last solved the problem by running a rounded bead or rib along the outside of the Elbow where the seam formerly broke open.

This entirely overcomes the trouble and makes practically a Seamless Elbow. We guarantee that none of these Elbows will split.

	Per Doz.
No. 751. 1¼ Inches Rubber Elbow. Long Pattern (1¼ Inches hole in flush pipe end x 1¼ Inches Iron Pipe Size Nut).....	\$6.00
No. 755. 1½ Inches Rubber Elbow. Long Pattern (1½ Inches hole in flush pipe end x 1½ Inches Iron Pipe Size Nut).....	10.00

RUBBER STRAIGHT CONNECTION

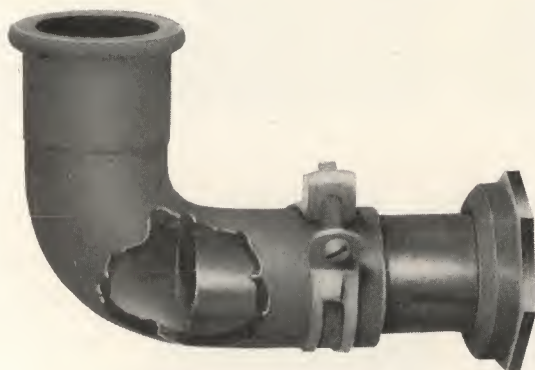
LONG PATTERN



	Per Doz.
No. 761. 1¼ Inches Rubber Straight Connection. Long Pattern (1¼ Inches hole in flush pipe end x 1¼ Inches Iron Pipe Size Nut) \$6.00	

RUBBER ELBOWS

EXTENSION PATTERN



		Per Doz.
No. 771.	1 1/4 Inches Extension Rubber Elbow (1 1/4 Inches hole in flush pipe end x 1 1/4 Inches Iron Pipe Size Nut).....	\$7.00
No. 775.	1 1/2 Inches Extension Rubber Elbow (1 1/2 Inches hole in flush pipe end x 1 1/4 Inches Iron Pipe Size Nut).....	9.00

RUBBER STRAIGHT CONNECTIONS

EXTENSION PATTERN



		Per Doz.
No. 791.	1 1/4 Inches Extension Rubber Straight Connection (1 1/4 Inches hole in flush pipe end x 1 1/4 Inches Iron Pipe Size Nut).....	\$7.00
No. 795.	1 1/2 Inches Extension Rubber Straight Connection (1 1/2 Inches hole in flush pipe end x 1 1/2 Inches Iron Pipe Size Nut).....	10.00

IDEAL WASTE WASHERS**MADE OF RUBBER**

(CUTS FULL SIZE)



1 Inch



1 1/4 Inches



1 1/2 Inches

				Per Doz.
No. 821.	1	Inch	Ideal Waste Washer.....	\$0.80
No. 832.	1 1/4	Inches	Ideal Waste Washer.....	.90
No. 843.	1 1/2	Inches	Ideal Waste Washer.....	1.00



1 Inch



1 1/4 Inches

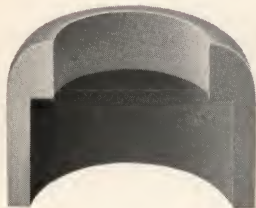
IDEAL WASTE WASHERS**EXTRA HEAVY
MADE OF RUBBER**

(CUTS FULL SIZE)

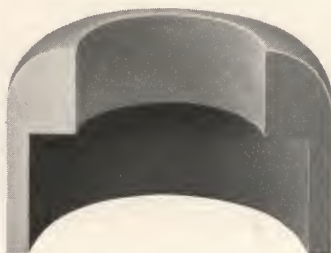
				Per Doz.
No. 851.	1	Inch...		\$1.00
No. 862.	1 1/4	Inches.		1.20

SPECIAL WASTE WASHERS**MADE OF RUBBER**

(CUTS FULL SIZE)



No. 864



No. 866



No. 868

				Per Doz.
No. 864.	Special	Waste	Washer.....	\$1.50
No. 866.	Special	Waste	Washer.....	2.50
No. 868.	Special	Waste	Washer.....	2.50

SPECIAL WASTE WASHER**MADE OF RUBBER**

(CUT FULL SIZE)



				Per Doz.
No. 871.	Special	Waste	Washer.....	\$1.00

MODEL WASTE WASHERS**MADE OF RUBBER**

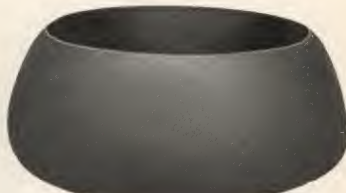
(CUTS FULL SIZE)



1 Inch



1¼ Inches



1½ Inches

No. 881.	1	Inch Model Waste Washer.....	Per Doz.
No. 892.	1¼	Inches Model Waste Washer.....	\$0.90
No. 903.	1½	Inches Model Waste Washer.....	1.10
			1.40

WOLFF WASTE WASHERS**BUTTERWORTH MAKE****MADE OF RUBBER**

(CUTS FULL SIZE)



No. 911



No. 922

**SPECIAL
WASTE
WASHER****MADE OF RUBBER**

(CUT FULL SIZE)



No. 932

No. 911.	Small Wolff Waste Washer (Butterworth Make)	Per Doz.
No. 922.	Large Wolff Waste Washer (Butterworth Make)	\$2.00
		3.00

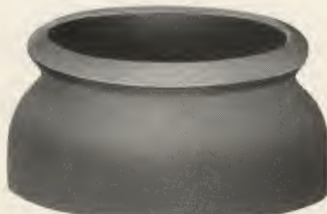
No. 932.	Special Waste Washer..	Per Doz.
		\$1.50

ELECTRIC WASTE WASHERS**MADE OF RUBBER**

(CUTS FULL SIZE)



No. 935



No. 937

No. 935.	Electric Waste Washer, Basin Size.....	Per Doz.
No. 937.	Electric Waste Washer, Bath Size.....	\$1.80
		2.50

“BUTTERWORTH” FEATHER EDGE SYPHON VALVE WASHERS MADE OF RUBBER

After considerable experimenting with Syphon Valve Washers we have discovered that they should not be made with an extreme feather edge as they will either crimp or break, neither should they be made with a blunt edge, as in that case they will not seat properly. We have, therefore, made special molds for these washers, from which we are making them with a very fine edge, but not fine enough to crimp or break. We make four sizes, as follows: $1\frac{1}{4}$ Inches, $1\frac{1}{2}$ Inches, $1\frac{3}{4}$ Inches and 2 Inches. They are made of the very best rubber, and every washer has our full name and address—“Butterworth Supply Co., Phila., Pa.”—molded on it.



(CUT FULL SIZE)

Per Doz.
No. 941. $1\frac{1}{4}$ Inches \$1.80



(CUT FULL SIZE)

Per Doz.
No. 945. $1\frac{1}{2}$ Inches \$2.20



(CUT FULL SIZE)

Per Doz.
No. 949. $1\frac{3}{4}$ Inches \$2.40



(CUT FULL SIZE)

Per Doz.
No. 953. 2 Inches.. \$2.60

SYPHON VALVE WASHERS

STUB EDGE

MADE OF RUBBER

(CUT FULL SIZE OF $1\frac{1}{4}$ INCHES)



We sell very few of these Washers, as the trade generally prefer "Butterworth" Feather Edge Syphon Valve Washers shown on page 20, but for the benefit of those who prefer the old style, we keep them in stock.

		Per Doz.
No. 961.	$1\frac{1}{4}$ Inches Stub Edge Syphon Valve Washer.....	\$1.60
No. 965.	$1\frac{1}{2}$ Inches Stub Edge Syphon Valve Washer.....	2.00
No. 969.	$1\frac{3}{4}$ Inches Stub Edge Syphon Valve Washer.....	2.20
No. 973.	2 Inches Stub Edge Syphon Valve Washer.....	2.40

SPECIAL TANK WASHERS

MADE OF RUBBER

(CUTS FULL SIZE)



	Per Doz.
No. 975. Special Tank Washer.....	\$1.20



	Per Doz.
No. 977. Special Tank Washer.....	\$1.40



	Per Doz.
No. 979. Special Tank Washer.....	\$1.60

FLAT TANK WASHERS

MADE OF RUBBER

(CUTS FULL SIZE)

Per Doz.

No. 1001..... \$1.20

1 $\frac{1}{8}$ Inches Inside Diam.

2 $\frac{3}{16}$ Inches Outside Diam.

$\frac{1}{8}$ Inch Thick.

Per Doz.

No. 1002..... \$1.20

1 $\frac{3}{16}$ Inches Inside Diam.

2 $\frac{3}{8}$ Inches Outside Diam.

$\frac{1}{8}$ Inch Thick.

Per Doz.

No. 1003..... \$1.40

1 $\frac{5}{16}$ Inches Inside Diam.

2 $\frac{3}{4}$ Inches Outside Diam.

$\frac{1}{8}$ Inch Thick.

Per Doz.

No. 1004..... \$1.40

1 $\frac{3}{4}$ Inches Inside Diam.

3 Inches Outside Diam.

$\frac{1}{8}$ Inch Thick.

NOTE.—Other styles of Flat Tank Washers with small holes are illustrated on page 25.



HALF ROUND TANK WASHERS

MADE OF RUBBER

(CUTS FULL SIZE)



No. 1021. 1 1/4 Inches



No. 1023. 1 1/2 Inches

Per Doz.

No. 1021.	1 1/4 Inches Half Round Tank Washer.....	\$1.20
No. 1023.	1 1/2 Inches Half Round Tank Washer.....	1.60

PLUNGER RINGS

MADE OF RUBBER



Per Doz.

No. 1031.	Plunger Ring, 1 1/4 Inches Hole x 2 1/4 Inches Outside Diameter..	\$2.00
No. 1035.	Plunger Ring, 1 1/2 Inches Hole x 2 1/2 Inches Outside Diameter..	2.00
No. 1039.	Plunger Ring, 1 3/4 Inches Hole x 2 1/2 Inches Outside Diameter..	2.00
No. 1043.	Plunger Ring, 2 Inches Hole x 2 3/4 Inches Outside Diameter..	2.00
No. 1047.	Plunger Ring, 2 5/8 Inches Hole x 3 3/4 Inches Outside Diameter..	6.00

NOTE.—Other Rubber Rings are illustrated on page 32.

RUBBER TANK CUPS

(CUTS FULL SIZE)



Per Doz.

Per Doz.

No. 1061.	Rubber Tank Cup....	\$3.00	No. 1071.	Rubber Tank Cup....	\$3.00
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TANK WASHER
MADE OF PURE PARA GUM
 (CUT FULL SIZE)



No. 1081. Tank Washer..... Per Doz. \$4.00

SMALL LIPP SYPHON VALVE WASHER
BUTTERWORTH MAKE—MADE OF RUBBER
 (CUT FULL SIZE)



No. 1091. Small Lipp Syphon Valve Washer (Butterworth Make)..... Per Doz. \$2.00

LARGE LIPP TANK WASHER
BUTTERWORTH MAKE—MADE OF RUBBER
 (CUT FULL SIZE)



No. 1095. Large Lipp Tank Washer (Butterworth Make)..... Per Doz. \$6.00

TANK WASHER
MADE OF PURE PARA GUM
 (CUT FULL SIZE)



No. 1099. Tank Washer..... Per Doz. \$2.00

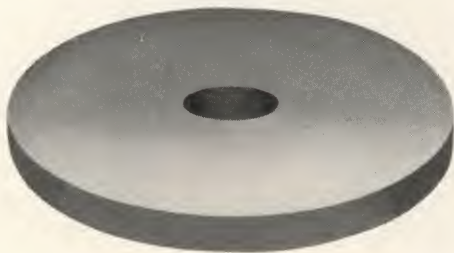
TANK WASHERS
MADE OF RUBBER
(CUT FULL SIZE OF NO. 1105)



	Per Doz.
No. 1101. Tank Washer. 3 Inches Outside Diameter x $\frac{1}{4}$ Inch Hole x $\frac{1}{8}$ Inch Thick.....	\$2.80
No. 1103. Tank Washer. $3\frac{1}{2}$ Inches Outside Diameter x $\frac{1}{4}$ Inch Hole x $\frac{1}{8}$ Inch Thick.....	3.00
No. 1105. Tank Washer. $4\frac{1}{2}$ Inches Outside Diameter x $\frac{1}{2}$ Inch Hole x $\frac{1}{8}$ Inch Thick.....	4.00

NOTE.—Other Flat Tank Washers are illustrated on page 22.

TANK WASHER
FOR STANDARD TANKS—BUTTERWORTH MAKE
MADE OF RUBBER
(CUT FULL SIZE)



	Per Doz.
No. 1107. Tank Washer. $21\frac{1}{32}$ Inches Outside Diameter x $\frac{1}{2}$ Inch Hole x $\frac{3}{16}$ Inch Thick.....	\$3.00

BLACK TANK BALLS

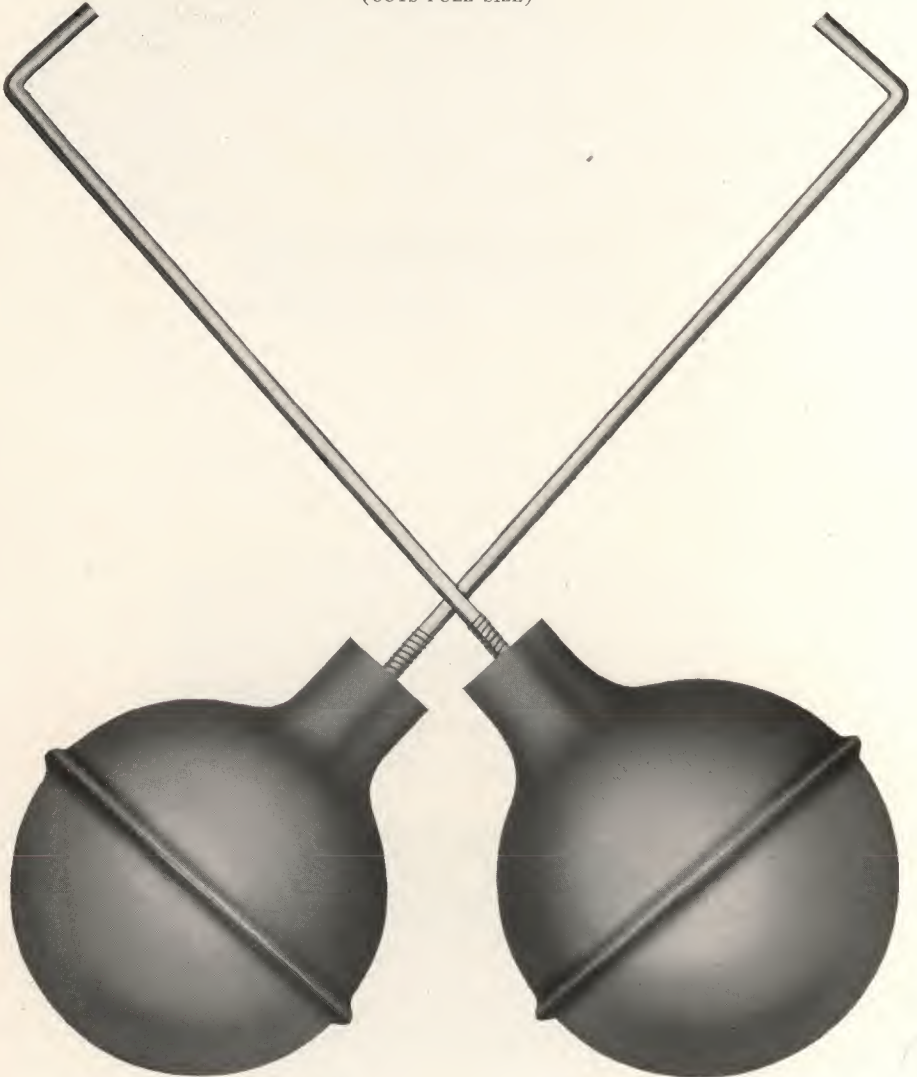
(These are the same style as shown on page 27 but are smaller sizes.)

We have carefully examined the Tank Valves used by tank manufacturers with the idea of grading the sizes of Tank Balls so that it will be unnecessary to handle useless sizes. We find four sizes of Tank Balls will answer all purposes. We illustrate these on this page and page 27.

These Tank Balls have hard tops and soft bottoms.

They will not swell. They are securely locked at the seam in such a way that they will not come apart. The threaded brass spuds are so fastened that they cannot turn or pull out.

(CUTS FULL SIZE)



No. 1132. 2 Inches

No. 1134. 2 $\frac{1}{8}$ Inches

	Per Doz.
No. 1132. 2 Inches Small Black Tank Ball with wire.....	\$5.50
No. 1134. 2 $\frac{1}{8}$ Inches Intermediate Black Tank Ball with wire.....	5.80

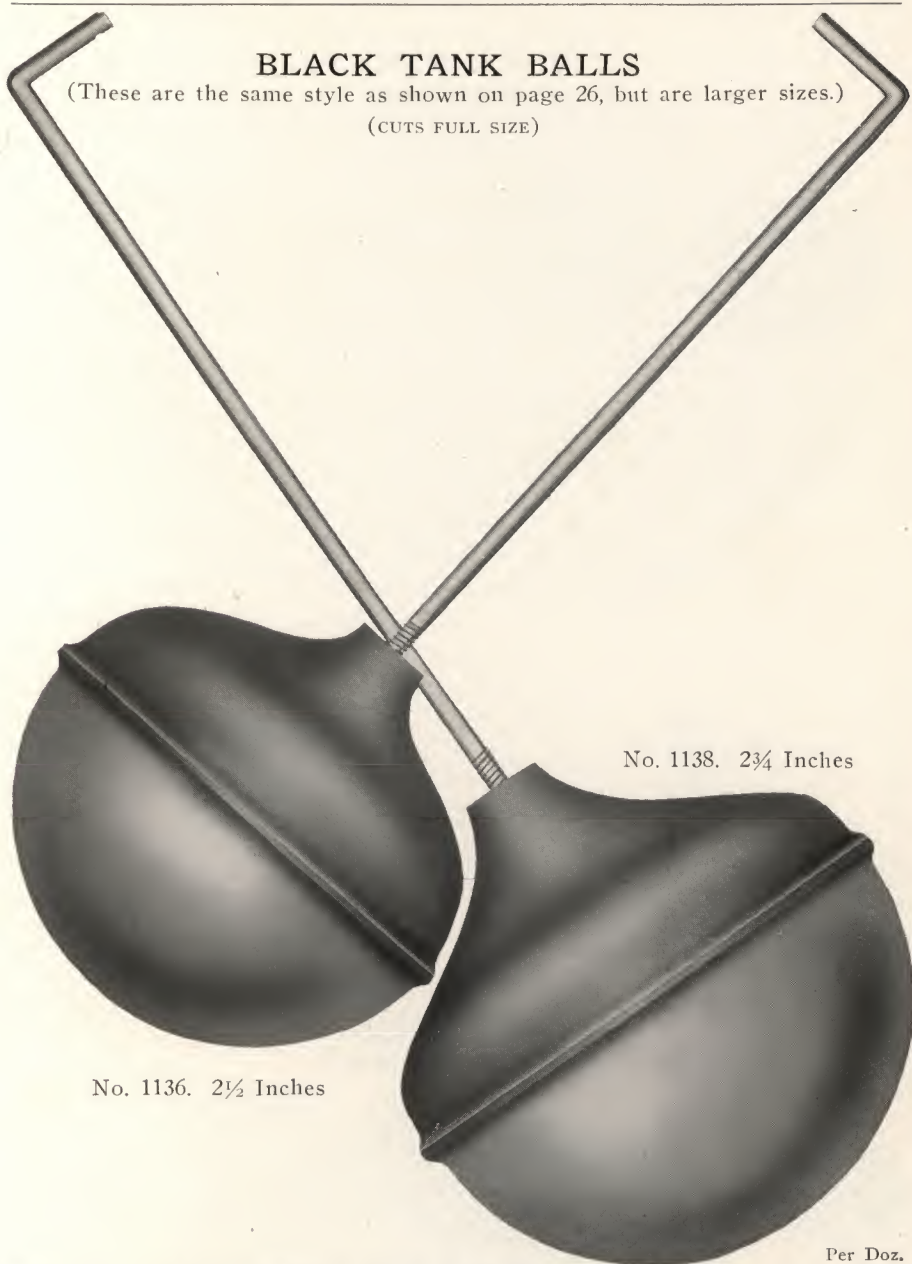
Tank Valves are illustrated on pages 104 and 105.

See bottom of page 27 for prices of White Tank Balls.

BLACK TANK BALLS

(These are the same style as shown on page 26, but are larger sizes.)

(CUTS FULL SIZE)



No. 1136. 2½ Inches

No. 1138. 2¾ Inches

No. 1136. 2½ Inches Medium Black Tank Ball with wire..... \$6.00
 No. 1138. 2¾ Inches Large Black Tank Ball with wire..... 7.00

The illustrations on pages 26 and 27 show Black Tank Balls, but for those who prefer White Tank Balls we list them below, with the exception of 2½ Inches Intermediate Tank Ball. This size is made of Black Rubber only.

WHITE TANK BALLS

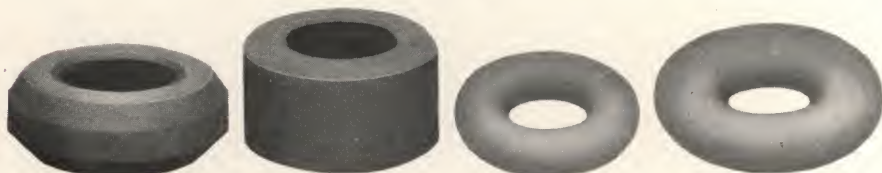
No. 1141. 2 Inches Small White Tank Ball with wire..... \$6.00
 No. 1152. 2½ Inches Medium White Tank Ball with wire..... 7.00
 No. 1163. 2¾ Inches Large White Tank Ball with wire..... 8.00

NOTE.—Tank Valves are illustrated on pages 104 and 105.

BUNG RINGS

MADE OF RUBBER

(CUTS FULL SIZE)



No. 1171

No. 1172

No. 1173

No. 1174

		Per Gross
No. 1171.	Bung Ring	\$7.00
No. 1172.	Bung Ring	7.00
No. 1173.	Bung Ring (Philadelphia Pattern)	6.00
No. 1174.	Bung Ring	7.00

TIT VALVE

MADE OF PURE PARA GUM

(CUT FULL SIZE)



Per Gross

No. 1195. Tit Valve..... \$4.00

This Tit Valve is used in Champion

Pump. See page 114.

VENT

MADE OF PURE PARA GUM

(CUT FULL SIZE)



Per Gross

No. 1204. Vent \$4.00

This Vent is used in Little Wonder

Pump. See page 115.

DIAPHRAGMS

MADE OF RUBBER



Per Doz.

No. 1220.	6 Inches Low Pressure Diaphragm.....	\$11.00
No. 1222.	8 Inches Low Pressure Diaphragm.....	12.00
No. 1223.	9 Inches Low Pressure Diaphragm.....	14.00
No. 1224.	10 Inches Low Pressure Diaphragm.....	16.00

RUBBER TUBING



All our Tubing is the best grade and is boxed in 50 ft. lengths.

RUBBER TUBING

		Per Foot
No. 1247.	$\frac{3}{16}$ Inch Medium Wall Rubber Tubing (sold in any length).....	\$0.10
No. 1251.	$\frac{3}{8}$ Inch Medium Wall Rubber Tubing (sold in any length).....	.12
No. 1255.	$\frac{3}{8}$ Inch Heavy Wall Rubber Tubing (sold in 50 ft. lengths only)	.16
No. 1259.	$\frac{1}{2}$ Inch Heavy Wall Rubber Tubing (sold in 50 ft. lengths only)	.22

CLOTH INSERTION TUBING

		Per Foot
No. 1271.	$\frac{3}{8}$ Inch x 3 Ply Cloth Insertion Tubing (sold in 50 ft. lengths only)	\$0.18
No. 1275.	$\frac{3}{8}$ Inch x 4 Ply Cloth Insertion Tubing (sold in 50 ft. lengths only) .....	.19
No. 1279.	$\frac{1}{2}$ Inch x 3 Ply Cloth Insertion Tubing (sold in 50 ft. lengths only) .....	.20
No. 1283.	$\frac{1}{2}$ Inch x 4 Ply Cloth Insertion Tubing (sold in 50 ft. lengths only) .....	.26

CLOSET VALVES

BUTTERWORTH MAKE

(CUTS FULL SIZE)



No. 1301

No. 1312

No. 1323

No. 1325

No. 1327

		Per Gross
No. 1301.	Closet Valve (Ideal), Regular Rubber	\$7.00
No. 1301.	Closet Valve (Ideal), Hard Rubber	7.00
No. 1312.	Closet Valve (Success), Regular Rubber	7.00
No. 1312.	Closet Valve (Success), Hard Rubber	7.00
No. 1323.	Closet Valve (Detroit), Regular Rubber	7.00
No. 1323.	Closet Valve (Detroit), Hard Rubber	7.00
No. 1325.	Closet Valve (Zero), Regular Rubber	12.00
No. 1327.	Closet Valve (Zero), Regular Rubber	8.50

CLOSET CONNECTIONS**MADE OF RUBBER**

(CUTS FULL SIZE)

These two Closet Connections are alike with the exception that No. 1331 has no tit in the center, while No. 1332 has the tit. Unless otherwise specified we will send No. 1331.



No. 1331. 1 1/4 Inches Closet Connection, without Tit..... Per Doz. \$1.50



No. 1332. 1 1/4 Inches Closet Connection, with Tit Per Doz. \$1.70

**CLOSET CONNECTION****MADE OF RUBBER**

(CUT FULL SIZE)

No. 1343. 1 1/2 Inches Closet Connection with Tit Per Doz. \$2.40

SINK GASKET**MADE OF RUBBER**

(CUT FULL SIZE)



No. 1401. Sink Gasket Per Gross \$11.50

BASIN GASKETS

MADE OF RUBBER

(CUTS FULL SIZE)



No. 1411.	Molded Basin Gasket.	Per Gross \$5.50	No. 1412.	Flat Basin Gasket....	Per Gross \$4.00
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BATH GASKET

MADE OF RUBBER

(CUT FULL SIZE)



The Bath Gasket is used at the bottom of a bath tub, making a much better joint than can be made with a flat washer.

No. 1415.	Bath Gasket	Per Gross \$10.00
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RUBBER FLOOR FLANGE GASKET

(CUT ONE-HALF SIZE)



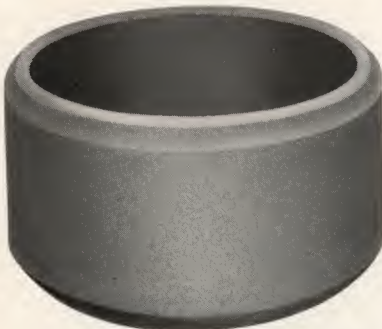
No. 1421.	Rubber Floor Flange Gasket.....	Per Gross \$34.00
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RUBBER RINGS



	Inside Diameter	Outside Diameter		Per Doz.
No. 1425.	2 $\frac{1}{8}$ Inches	2 $\frac{3}{4}$ Inches	(For Shower Sprinklers on page 83)....	\$2.00
No. 1429.	3 $\frac{1}{4}$ Inches	3 $\frac{7}{8}$ Inches	(For Sanitas Trap).....	2.50
No. 1431.	4 Inches	4 $\frac{5}{8}$ Inches	(For Floor Flange).....	3.00

NOTE.—No. 1425 is White Rubber and No. 1429 and No. 1431 are Gray Rubber. Other Rubber Rings are illustrated on page 23.



TESTING RINGS

MADE OF RUBBER

A poor grade of rubber is useless for testing pipe. We make our Testing Rings of the best and toughest rubber.

	Per Doz.
No. 1441. For 2 Inches Pipe.....	\$3.20
No. 1443. For 3 Inches Pipe.....	7.00
No. 1445. For 4 Inches Pipe.....	10.00
No. 1447. For 5 Inches Pipe.....	13.00
No. 1449. For 6 Inches Pipe.....	16.00

NOTE.—Complete Testing Plugs are illustrated on page 71.



CLOSET SPUD

WASHERS

MADE OF RUBBER

	Per Doz.
No. 1461. 1 $\frac{1}{4}$ Inches..	\$3.20
No. 1465. 1 $\frac{1}{2}$ Inches..	3.60
No. 1469. 2 Inches..	4.00



CLOSET SPUD

WASHERS

MADE OF RUBBER

	Per Doz.
No. 1481. 1 $\frac{1}{4}$ Inches.....	\$2.80
No. 1485. 1 $\frac{1}{2}$ Inches.....	3.00
No. 1489. 2 Inches.....	3.50

(CUT FULL SIZE OF $1\frac{1}{4}$ INCHES)



BASIN CONNECTIONS (Or Ohliger Connections)

MADE OF RUBBER

Per Doz.

No. 1491.	$1\frac{1}{4}$ Inches Basin	
	Connection	\$2.00
No. 1492.	$1\frac{1}{2}$ Inches Basin	
	Connection	2.50

NOTE.—No. 1491 is the standard size and will be sent unless otherwise specified.

RUBBER PLUGS

Per Doz.

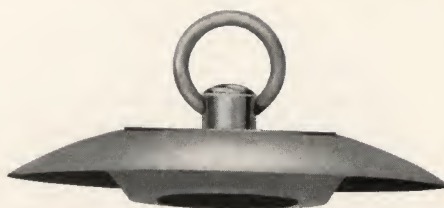
No. 1501.	$\frac{7}{8}$ Inch Rubber Plug.....	\$1.20
No. 1505.	1 Inch Rubber Plug.....	1.20
No. 1509.	$1\frac{1}{8}$ Inches Rubber Plug.....	1.40
No. 1513.	$1\frac{1}{4}$ Inches Rubber Plug.....	1.60
No. 1517.	$1\frac{3}{8}$ Inches Rubber Plug.....	1.80
No. 1521.	$1\frac{1}{2}$ Inches Rubber Plug.....	2.00
No. 1525.	$1\frac{3}{4}$ Inches Rubber Plug.....	2.50
No. 1529.	2 Inches Rubber Plug.....	3.20



SUCTION STOPPERS

Per Doz.

No. 1561.	Basin Suction Stop-	
	per	\$3.00
No. 1572.	Bath Suction Stop-	
	per	4.00



BEVELED WASTE AND OVERFLOW WASHER

MADE OF RUBBER

(CUT FULL SIZE)



This washer is made of rubber in the shape of a wedge, to take up the space between the connected Waste and Overflow and the slant of the Bath Tub at the overflow.

No. 1581.	Beveled Waste and Overflow Washer.....	Per Doz.
		\$1.60

"BUTTERWORTH" SHEET PACKING

(36 INCHES WIDE)



We cannot cut small pieces out of a roll, as it spoils the sheet for the next customer. All orders must be cut the entire width of sheet—36 inches wide.

"Butterworth" Sheet Packings are made especially for Plumbers' use. They are noted for their flexibility and long life, and cannot be excelled.

"BUTTERWORTH" CLOTH INSERTION PACKING

"Butterworth" Cloth Insertion Packing is used instead of Red Packing when a good grade at a lower price than Red Packing is required.

		Per Pound
No. 1601.	"Butterworth" Cloth Insertion Packing, $\frac{1}{16}$ " thick x 36" wide....	\$0.60
No. 1602.	"Butterworth" Cloth Insertion Packing, $\frac{3}{32}$ " thick x 36" wide....	.60
No. 1603.	"Butterworth" Cloth Insertion Packing, $\frac{1}{8}$ " thick x 36" wide....	.60

"BUTTERWORTH" PURE RUBBER PACKING

"Butterworth" Pure Rubber Packing is soft and flexible and is used for cutting flat washers, such as Tank Washers, etc. This Packing is made $\frac{3}{32}$ Inch and $\frac{1}{8}$ Inch thick. We have discontinued $\frac{1}{16}$ Inch, as there was such a slight demand for it.

		Per Pound
No. 1612.	"Butterworth" Pure Rubber Packing, $\frac{3}{32}$ " thick x 36" wide.....	\$1.40
No. 1613.	"Butterworth" Pure Rubber Packing, $\frac{1}{8}$ " thick x 36" wide.....	1.40

"BUTTERWORTH" RED PACKING

"Butterworth" Red Packing represents our best effort to produce a Packing suitable for hot water, steam, acids, etc.

		Per Pound
No. 1621.	"Butterworth" Red Packing, $\frac{1}{16}$ " thick x 36" wide.....	\$1.20
No. 1622.	"Butterworth" Red Packing, $\frac{3}{32}$ " thick x 36" wide.....	1.20
No. 1623.	"Butterworth" Red Packing, $\frac{1}{8}$ " thick x 36" wide.....	1.20

"BUTTERWORTH" TIP TOPPO PACKING

"Butterworth" Tip Toppo Packing is made in one thickness— $\frac{3}{32}$ Inch. It is made of eight layers of the finest grade of cloth fabric—no rubber layers. There is just enough rubber cement between each layer to hold them together. The friction is so strong that it is almost impossible to separate the eight layers with a knife. We make our Tip Toppo Top Bibb Washers of this stock. See page 11.

		Per Pound
No. 1642.	"Butterworth" Tip Toppo Packing $\frac{3}{32}$ " thick x 36" wide.....	\$2.00

PLUMBERS' FRIENDS

(4 INCHES AND 4½ INCHES)

All articles on this page are made of the toughest and best rubber. An old broom stick makes the best kind of handle for Plumbers' Friends. All styles of Plumbers' Friends are furnished with clamp only as illustrated (no handle) unless otherwise specified.

Per Doz.

- | | |
|---|---------|
| No. 1751. 4 Inches Plumbers' Friend with Clamp (no handle) | \$14.00 |
| No. 1755. 4 Inches Plumbers' Friend with Clamp (handle included) | 16.40 |
| No. 1759. 4½ Inches Plumbers' Friend with Clamp (no handle) | 16.40 |
| No. 1763. 4½ Inches Plumbers' Friend with Clamp (handle included) | 18.80 |

SIX INCHES
PLUMBERS' FRIEND

(CUT ONE-HALF SIZE)

Per Doz.

- | | |
|---|---------|
| No. 1771. 6 Inches Plumbers' Friend with Clamp (no handle) | \$30.00 |
| No. 1774. 6 Inches Plumbers' Friend with Clamp (handle included) | 32.40 |

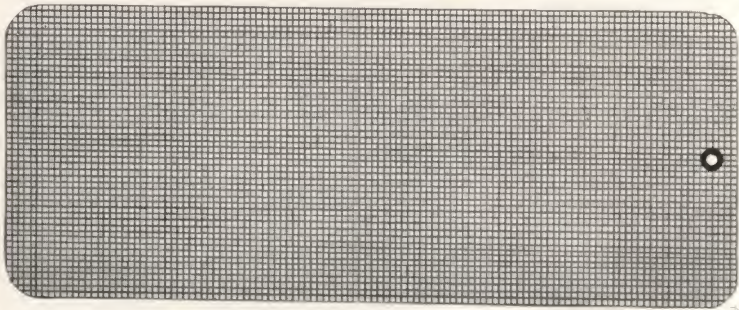


HAND FORCE CUP

Per Doz.

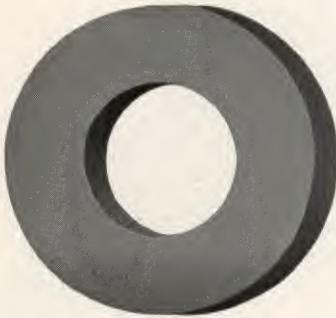
- | | |
|------------------------------|--------|
| No. 1783. Hand Force Cup, 4½ | |
| Outside Diameter | \$8.00 |

BATH TUB MATS



		Per Doz.
No. 1803.	12 Inches x 30 Inches Bath Tub Mat.....	\$33.00
No. 1805.	12 Inches x 36 Inches Bath Tub Mat.....	40.00

VALVE DISCS



ROUND HOLE

	Size Valve	Outside Diameter	Per Doz.
No. 1821.	$\frac{1}{4}$ Inch	$\frac{5}{8}$ Inch.....	\$0.72
No. 1823.	$\frac{3}{8}$ Inch	$\frac{3}{4}$ Inch.....	.96
No. 1825.	$\frac{1}{2}$ Inch	$\frac{13}{16}$ Inch.....	.96
No. 1827.	$\frac{3}{4}$ Inch	1 Inch.....	1.20
No. 1829.	1 Inch	$1\frac{3}{8}$ Inches....	1.44
No. 1831.	$1\frac{1}{4}$ Inches	$1\frac{5}{8}$ Inches....	2.16
No. 1833.	$1\frac{1}{2}$ Inches	$1\frac{7}{8}$ Inches....	2.88
No. 1835.	2 Inches	$2\frac{1}{2}$ Inches....	4.32

VALVE DISCS



OBLONG HOLE

	Size Valve	Outside Diameter	Per Doz.
No. 1851.	$\frac{1}{4}$ Inch	$\frac{5}{8}$ Inch.....	\$0.72
No. 1853.	$\frac{3}{8}$ Inch	$\frac{3}{4}$ Inch.....	.96
No. 1855.	$\frac{1}{2}$ Inch	$\frac{13}{16}$ Inch.....	.96
No. 1857.	$\frac{3}{4}$ Inch	1 Inch.....	1.20
No. 1859.	1 Inch	$1\frac{3}{8}$ Inches....	1.44
No. 1861.	$1\frac{1}{4}$ Inches	$1\frac{5}{8}$ Inches....	2.16
No. 1863.	$1\frac{1}{2}$ Inches	$1\frac{7}{8}$ Inches....	2.88
No. 1865.	2 Inches	$2\frac{1}{2}$ Inches....	4.32

PLUMBERS' ROUND NOSE CHISEL

(CUT ONE-HALF SIZE)



- No. 1881. Plumbers' Round Nose Chisel (made of $\frac{5}{8}$ Inch Octagon Steel. 7 Inches Long) Each \$0.60

PLUMBERS' DIAMOND NOSE CHISEL

(CUT ONE-HALF SIZE)



- No. 1885. Plumbers' Diamond Nose Chisel (made of $\frac{5}{8}$ Inch Octagon Steel. 7 Inches Long) Each \$0.60

PLUMBERS' JOINT CHISEL

(CUT ONE-HALF SIZE)



- No. 1889. Plumbers' Joint Chisel (made of $\frac{1}{2}$ Inch Octagon Steel. 10 Inches Long. Width of cutting edge $\frac{3}{16}$ Inch) Each \$0.70

PLUMBERS' PICKING CHISEL

(CUT ONE-HALF SIZE)



- No. 1893. Plumbers' Picking Chisel (made of $\frac{5}{8}$ Inch Octagon Steel. 8 Inches Long. Width of cutting edge $\frac{5}{16}$ Inch) Each \$0.60

PLUMBERS' CAPE CHISELS



		Size of Octagon Steel	Length	Cutting Edge	Each
No. 1897.	Plumbers' Cape Chisel.	$\frac{3}{4}$ Inch	5 $\frac{1}{2}$ Inches	$\frac{1}{8}$ Inch.....	\$0.40
No. 1899.	Plumbers' Cape Chisel.	$\frac{5}{16}$ Inch	5 $\frac{1}{2}$ Inches	$\frac{3}{16}$ Inch.....	.40
No. 1901.	Plumbers' Cape Chisel.	$\frac{3}{8}$ Inch	6 Inches	$\frac{1}{4}$ Inch.....	.40
No. 1903.	Plumbers' Cape Chisel.	$\frac{1}{2}$ Inch	7 Inches	$\frac{5}{16}$ Inch.....	.50
No. 1905.	Plumbers' Cape Chisel.	$\frac{5}{8}$ Inch	8 Inches	$\frac{3}{8}$ Inch.....	.70

PLUMBERS' COLD CHISELS



		Size of Octagon Steel	Length	Cutting Edge	Each
No. 1911.	Plumbers' Cold Chisel.	$\frac{1}{2}$ Inch	6 Inches	$\frac{1}{2}$ Inch.....	\$0.50
No. 1913.	Plumbers' Cold Chisel.	$\frac{9}{16}$ Inch	6 $\frac{1}{2}$ Inches	$\frac{5}{8}$ Inch.....	.60
No. 1915.	Plumbers' Cold Chisel.	$\frac{5}{8}$ Inch	7 Inches	$\frac{3}{4}$ Inch.....	.70
No. 1917.	Plumbers' Cold Chisel.	$\frac{3}{4}$ Inch	8 Inches	$\frac{7}{8}$ Inch.....	.80

PLUMBERS' BRICK CHISEL



				Each
No. 1925.	Plumbers' Brick Chisel (made of $\frac{5}{8}$ Inch Octagon Steel, 12 Inches Long x 1 Inch Cutting Edge)			\$0.70

PLUMBERS' WOOD CHISELS



		Size of Octagon Steel	Length	Cutting Edge	Each
No. 1931.	Plumbers' Wood Chisel.	$\frac{1}{2}$ Inch	10 Inches	$\frac{3}{4}$ Inch.....	\$0.70
No. 1935.	Plumbers' Wood Chisel.	$\frac{9}{16}$ Inch	11 Inches	1 Inch.....	.80

PLUMBERS' GOUGE

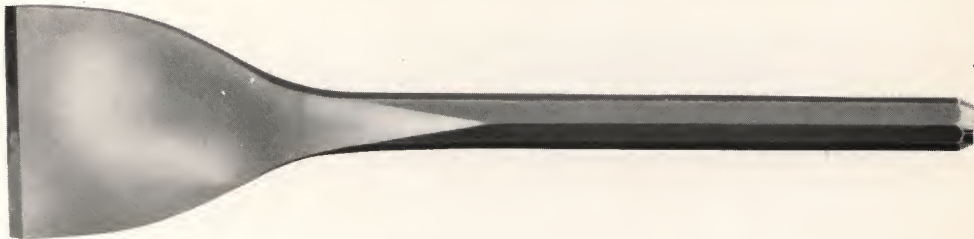


No. 1941. Plumbers' Gouge (made of $\frac{5}{8}$ Inch Octagon Steel. 12 Inches

Long x 1 Inch Cutting Edge) \$1.00

Each

PLUMBERS' FLOOR CHISEL



No. 1949. Plumbers' Floor Chisel (made of $\frac{5}{8}$ Inch Octagon Steel. 12

Inches Long x 3 Inches Edge) \$1.50

Each

PLUMBERS' STAR DRILLS



		Size of Octagon Steel	Length	Drills Hole	Each
No. 1955.	Plumbers' Star Drill.	$\frac{1}{2}$ Inch	12 Inches	$\frac{3}{4}$ Inch.....	\$0.90
No. 1957.	Plumbers' Star Drill.	$\frac{3}{4}$ Inch	14 Inches	1 Inch.....	1.80
No. 1959.	Plumbers' Star Drill.	$\frac{7}{8}$ Inch	18 Inches	1 $\frac{1}{4}$ Inches.....	2.70
No. 1961.	Plumbers' Star Drill.	1 Inch	18 Inches	1 $\frac{1}{2}$ Inches.....	3.60

PLUMBERS' STRAIGHT PACKING TOOL



			Each
No. 1971.	Plumbers' Straight Packing Tool (made of $\frac{5}{8}$ Inch Octagon		
	Steel. 18 Inches Long)		\$0.90

PLUMBERS' PACKING TOOLS



		Size of Octagon Steel	Length	Each
No. 1975.	Plumbers' Packing Tool.	$\frac{5}{8}$ Inch	9 Inches.....	\$0.60
No. 1977.	Plumbers' Packing Tool.	$\frac{5}{8}$ Inch	12 Inches.....	.70
No. 1981.	Plumbers' Packing Tool.	$\frac{5}{8}$ Inch	17 Inches.....	.80

PLUMBERS' GASKET TOOL



			Each
No. 1991.	Plumbers' Gasket Tool (made of $\frac{5}{8}$ Inch Octagon Steel.	9	
	Inches Long)		\$0.70

PLUMBERS' CAULKING TOOLS

SHORT NOSE AND LONG NOSE



		Size of Octagon Steel	Length	Each
No. 1995.	Plumbers' Short Nose Caulking Tool.	$\frac{5}{8}$ Inch	$6\frac{1}{2}$ Inches..	\$0.60
No. 1997.	Plumbers' Long Nose Caulking Tool.	$\frac{5}{8}$ Inch	8 Inches..	.60

PLUMBERS' LONG CURVED NOSE CAULKING TOOL



- No. 2001. Plumbers' Long Curved Nose Caulking Tool (made of $\frac{5}{8}$ Inch
Octagon Steel. 8 Inches Long) Each \$0.70

PLUMBERS' BROAD CURVED NOSE CAULKING TOOL



- No. 2005. Plumbers' Broad Curved Nose Caulking Tool (made of $\frac{5}{8}$ Inch
Octagon Steel. 8 Inches Long) Each \$0.70

PLUMBERS' DOUBLE CAULKING TOOL



- | | | Size of
Octagon Steel | Length | Each |
|-----------|---------------------------------|--------------------------|----------------|--------|
| No. 2009. | Plumbers' Double Caulking Tool. | $\frac{5}{8}$ Inch | 9 Inches..... | \$0.90 |
| No. 2015. | Plumbers' Double Caulking Tool. | $\frac{5}{8}$ Inch | 16 Inches..... | 1.20 |

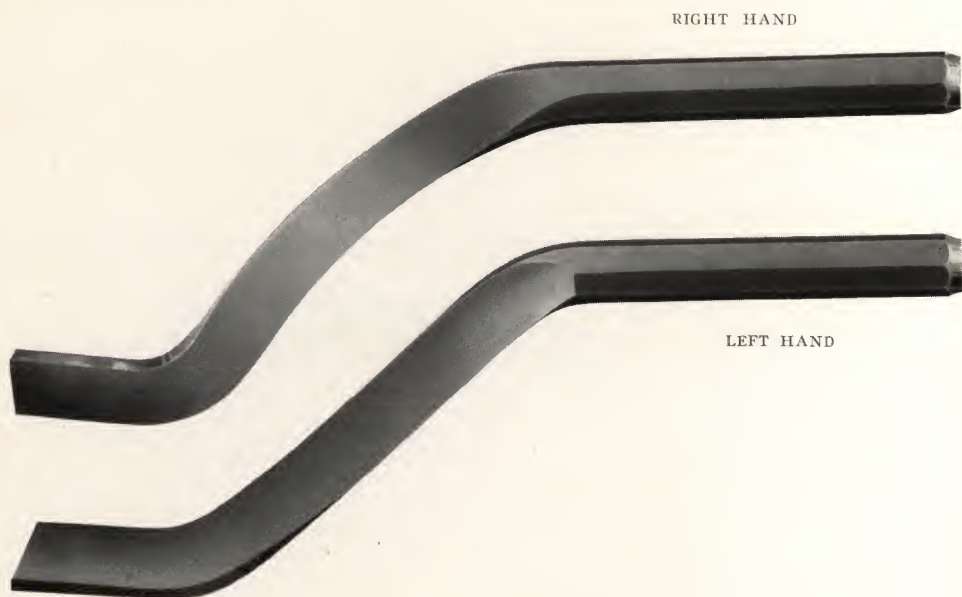
PLUMBERS' IN AND OUT CAULKING TOOLS



- No. 2021. Plumbers' In and Out Caulking Tools (made of $\frac{5}{8}$ Inch Octagon
Steel. $4\frac{1}{2}$ Inches Long) Per Pair \$1.00

PLUMBERS' OFFSET CAULKING TOOLS

RIGHT AND LEFT HAND



Per Pair

No. 2025. Plumbers' Offset Caulking Tools. Right and Left Hand (made of $\frac{5}{8}$ Inch Octagon Steel. 11 Inches Long)..... \$2.00

PLUMBERS' CEILING CAULKING TOOL



Each

No. 2031. Plumbers' Ceiling Caulking Tool (made of $\frac{5}{8}$ Inch Octagon Steel. 15 Inches Long) \$1.40

PLUMBERS' COMBINATION CAULKING TOOL



Each

No. 2035. Plumbers' Combination Caulking Tool (made of $\frac{3}{4}$ Inch Square Steel. 15 Inches Long) \$2.50

PLUMBERS' FLAT TAPER REAMER



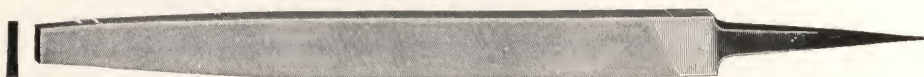
This is one of the most valuable tools a Plumber can have. It may be used for burring pipe from $\frac{1}{8}$ Inch to 2 Inches Iron Pipe Size. It may also be used for enlarging Flanges, Brass Nuts, etc.

The end is ground at the correct angle for countersinking for wood screws. The Reamer may be used on brass or iron. The Plumber has no facilities for properly grinding a fluted Reamer, but our Reamer may easily be ground when it becomes dull.

Each

No. 2041. Plumbers' Flat Taper Reamer..... \$4.00

PLUMBERS' FLAT SMOOTH FILES



		Per Doz.
No. 2069H.	8 Inches Plumbers' Flat Smooth File.....	\$4.28
No. 2069J.	10 Inches Plumbers' Flat Smooth File.....	5.64
No. 2069L.	12 Inches Plumbers' Flat Smooth File.....	7.84
No. 2069N.	14 Inches Plumbers' Flat Smooth File.....	10.82

PLUMBERS' FLAT BASTARD FILES



		Per Doz.
No. 2071H.	8 Inches Plumbers' Flat Bastard File.....	\$3.44
No. 2071J.	10 Inches Plumbers' Flat Bastard File.....	4.54
No. 2071L.	12 Inches Plumbers' Flat Bastard File.....	6.28
No. 2071N.	14 Inches Plumbers' Flat Bastard File.....	8.60

PLUMBERS' HALF ROUND SMOOTH FILES



		Per Doz.
No. 2073H.	8 Inches Plumbers' Half Round Smooth File.....	\$5.76
No. 2073J.	10 Inches Plumbers' Half Round Smooth File.....	6.92
No. 2073L.	12 Inches Plumbers' Half Round Smooth File.....	9.00

PLUMBERS' HALF ROUND BASTARD FILES



		Per Doz.
No. 2075H.	8 Inches Plumbers' Half Round Bastard File.....	\$4.86
No. 2075J.	10 Inches Plumbers' Half Round Bastard File.....	5.90
No. 2075L.	12 Inches Plumbers' Half Round Bastard File.....	7.64

NOTE.—File Handles are illustrated on page 54.

PLUMBERS' HALF ROUND WOOD RASPS



		Per Doz.
No. 2077J.	10 Inches Plumbers' Half Round Wood Rasp.....	\$9.50
No. 2077L.	12 Inches Plumbers' Half Round Wood Rasp.....	13.00
No. 2077N.	14 Inches Plumbers' Half Round Wood Rasp.....	16.50

PLUMBERS' ROUND BASTARD FILES



		Per Doz.
No. 2079F.	6 Inches Plumbers' Round Bastard File.....	\$2.28
No. 2079H.	8 Inches Plumbers' Round Bastard File.....	2.78
No. 2079J.	10 Inches Plumbers' Round Bastard File.....	3.62
No. 2079L.	12 Inches Plumbers' Round Bastard File.....	4.86

PLUMBERS' SQUARE BASTARD FILES



		Per Doz.
No. 2083F.	6 Inches Plumbers' Square Bastard File.....	\$2.98
No. 2083H.	8 Inches Plumbers' Square Bastard File.....	3.60
No. 2083J.	10 Inches Plumbers' Square Bastard File.....	4.80
No. 2083L.	12 Inches Plumbers' Square Bastard File.....	6.60

PLUMBERS' SLIM TAPER FILES
(THREE-CORNERED)

		Per Doz.
No. 2087E.	5 Inches Plumbers' Slim Taper File.....	\$1.62
No. 2087F.	6 Inches Plumbers' Slim Taper File.....	2.00
No. 2087G.	7 Inches Plumbers' Slim Taper File.....	2.46

NOTE.—File Handles are illustrated on page 54.

BUTTERWORTH GASOLINE FURNACE



It does not pay to waste time with a cheap Furnace. Our Furnace cannot be surpassed. We mention a few of the parts that are superior to others:—Our Burner is made of a special steel particularly adapted for the purpose. Connecting Pipe and Coil are made of extra heavy $\frac{1}{8}$ Inch Pipe. Ell, Tee, Plug, Filling Screw and Handle Ears are all made of cast brass, while some other makes are iron. Valve and Pet Cock are fit up with stuffing boxes. Top Plate and the base of Reservoir are malleable iron and cost us three times as much as we could make them of cast iron. The top casting of Reservoir is made unusually heavy and strong. It weighs $2\frac{1}{4}$ pounds. The base and sides are made of heavy galvanized iron. The Furnace is assembled in a careful manner, and is given an air test, and then a gasoline test before we send it out. Each furnace is packed in a strong wood box.

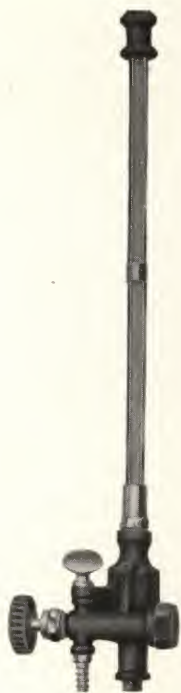
Each

No. 2101. Butterworth Gasoline Furnace
with 1 Large Shield..... \$7.50

REPAIRS FOR "BUTTERWORTH" FURNACE

These repairs also fit the other standard makes of Furnaces.

<i>Burner</i> 	<i>Connecting Pipe</i> 	<i>Coil</i> 	<i>Coil Cup</i> 	<i>Ell</i> 
EACH 20¢	EACH 16¢	EACH 80¢	EACH 60¢	EACH 12¢
<i>Filling Screw</i> 	<i>Handle Ear</i> 	<i>Handle</i> 	<i>Nuts</i>  No. 1 No. 2	<i>Valve</i> 
EACH 30¢	EACH 16¢	EACH 50¢	EACH 04¢	EACH 90¢
<i>Pet Cock</i> 	<i>Plug</i> 	<i>Reservoir</i> 	<i>Bulb</i> 	<i>Shield</i> 
EACH 60¢	EACH 12¢	EACH 3.60	EACH 50¢	EACH 1.00
<i>No. 3 Shield</i> 	<i>Tee</i> 	<i>Top Plate</i> 	<i>Upright</i> 	<i>Coil Wire</i> 
EACH 2.00	EACH 12¢	EACH 40¢	EACH 16¢	EACH 10¢



MERCURY COLUMN

The tube in this Mercury Column is not made of glass, but is made of a transparent compound which may be bent but will not break.

The mercury cannot be lost. The air passages are large and cannot be clogged. It is so constructed that ether cannot get into the mercury chamber.

The spud faces the wall and no elbows or fittings are required.

	Each
No. 2149. Mercury Column	\$12.00

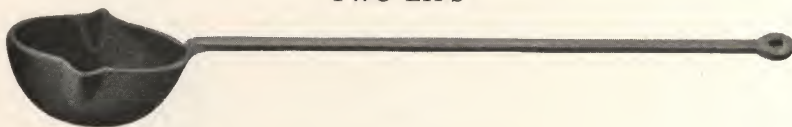


GAS PROVING PUMP

	Each
No. 2155. Gas Proving Pump.....	\$9.00

WROUGHT STEEL LADLES

TWO LIPS



					Per Doz.
No. 2271.	2½	Inches	Two Lip	Wrought Steel Ladle.....	\$4.50
No. 2272.	3	Inches	Two Lip	Wrought Steel Ladle.....	5.50
No. 2274.	4	Inches	Two Lip	Wrought Steel Ladle.....	7.00
No. 2278.	6	Inches	Two Lip	Wrought Steel Ladle.....	12.00

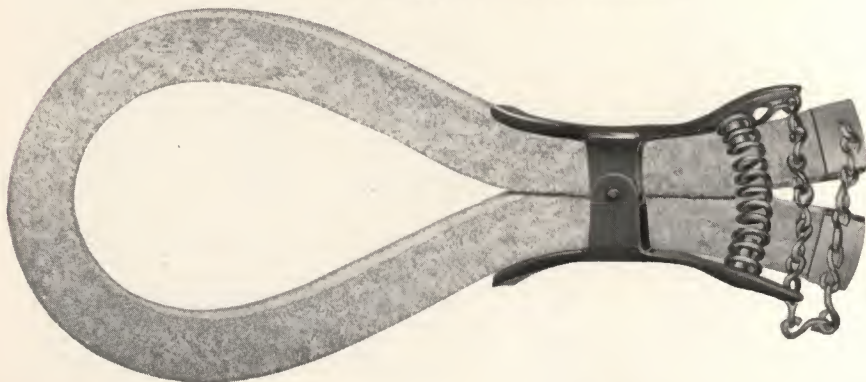
METAL POTS



Metal Pots are not measured at the inside diameter, but at the extreme outside diameter.

					Per Doz.
No. 2301.	5	Inches	Metal Pot (5 Inches extreme outside diameter).....		\$5.50
No. 2303.	6	Inches	Metal Pot (6 Inches extreme outside diameter).....		8.00

ASBESTOS JOINT RUNNERS



					Each
No. 2321.	(Regular No. 1)	Asbestos Joint Runner for 2", 3" and 4" Pipe..			\$2.50
No. 2322.	(Regular No. 2)	Asbestos Joint Runner for 4", 5" and 6" Pipe..			3.00



WIPING CLOTHS

MADE OF FINEST IMPORTED MOLESKIN

These Moleskin Wiping Cloths are made of the finest imported Moleskin. They have eight thicknesses, and are made without inside paper linings.

They are stitched in only two corners on the inside, and do not have any objectionable outside stitches, which catch solder.

We can also furnish Moleskin by the yard to those who prefer to make their Wiping Cloths.

This is illustrated on page 50.

				Per Doz.
No. 2351.	2	Inches x 2	Inches Moleskin Wiping Cloth.....	\$4.00
No. 2355.	2½	Inches x 2½	Inches Moleskin Wiping Cloth.....	4.20
No. 2359.	3	Inches x 3	Inches Moleskin Wiping Cloth.....	4.40
No. 2363.	3½	Inches x 3½	Inches Moleskin Wiping Cloth.....	4.60
No. 2367.	4	Inches x 4	Inches Moleskin Wiping Cloth.....	4.80

WIPING CLOTHS

MADE OF BEST QUALITY WIDE STRIPE HERRINGBONE TICKING

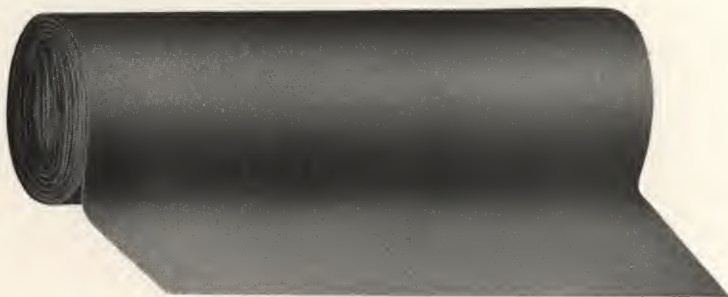


These Wiping Cloths are made of the finest quality Herringbone Ticking, which has the much desired wide stripe weave. They have twelve thicknesses. We can also furnish Herringbone Ticking by the yard to those who prefer to make their Wiping Cloths.

This is illustrated on page 50.

				Per Doz.
No. 2381.	2	Inches x 2	Inches Herringbone Ticking Wiping Cloth....	\$2.40
No. 2385.	2½	Inches x 2½	Inches Herringbone Ticking Wiping Cloth....	2.60
No. 2389.	3	Inches x 3	Inches Herringbone Ticking Wiping Cloth....	2.80
No. 2393.	3½	Inches x 3½	Inches Herringbone Ticking Wiping Cloth....	3.00
No. 2397.	4	Inches x 4	Inches Herringbone Ticking Wiping Cloth....	3.20

IMPORTED MOLESKIN



This Imported Moleskin is the finest quality made. It is 28 Inches wide. We use this material in making our Moleskin Wiping Cloths illustrated on page 49.

Per Yard

No. 2402. Imported Moleskin, 28 Inches Wide..... \$1.80

HERRINGBONE TICKING



This Herringbone Ticking is the finest quality made. It has the much desired wide stripe weave. It is 33 Inches wide. We use this material in making our Herringbone Ticking Wiping Cloths illustrated on page 49.

Per Yard

No. 2404. Herringbone Ticking, 33 Inches Wide..... \$0.80

COTTON LAMP WICK



No. 2411. Cotton Lamp Wick	Per Doz. Balls
	\$1.00

ASBESTOS WICK



No. 2421. Asbestos Wick	Per Pound
	\$0.80

NOTE.—We furnish this in One Pound Balls.



"BUTTERWORTH" PLUMBERS' CANDLE

"Butterworth" Plumbers' Candles are made especially for Plumbers' use. They are made of wax for light, tallow, for tinning, and steric acid, which hardens them and makes them burn for a long time.

By compounding these in the right proportions we have a candle that is hard to beat for Plumbers' use. They are 5 Inches long and $1\frac{1}{4}$ Inches in Diameter. "Butterworth" Plumbers' Candles are packed in 20 -Pound and 50-Pound Cases.

Per Pound

No. 2431. "Butterworth" Plumbers' Candle..... \$0.30

NICKEL PLATED BRASS POCKET TORCH

This Torch is used as a lamp instead of Plumbers' Candles. It is filled with cotton. The cotton is thoroughly saturated with gasoline before lighting. It will burn for several hours with one saturation of gasoline.

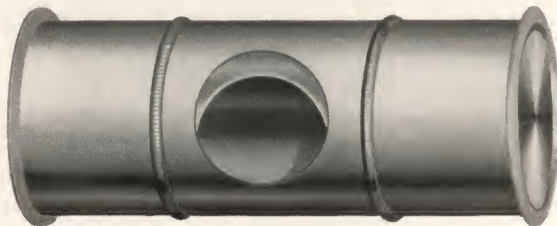
Per Doz.

No. 2441. Nickel Plated Brass Pocket Torch..... \$6.00



GREASE AND ROSIN BOX

(CUT ONE-HALF SIZE)



Grease and Rosin Box is made of brass. It has three compartments. It is $5\frac{3}{4}$ Inches long x $2\frac{1}{4}$ Inches outside diameter.

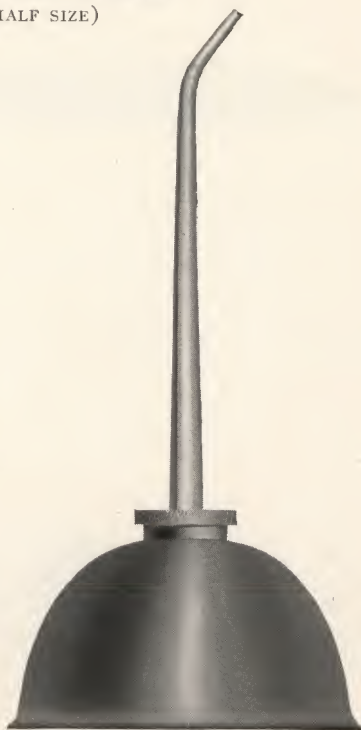
No. 2445. Grease and Rosin Box..... Each \$2.50

PLUMBERS' OIL CANS

(CUTS ONE-HALF SIZE)



No. 2451
With Regular Straight Nozzle



No. 2452
With Extra Long Bent Nozzle

These Plumbers' Oil Cans are welded together by a new process which prevents any danger of leaking. They are made unusually strong for rough usage. No. 2451 and No. 2452 are alike with the exception of the Nozzles.

No. 2451. Plumbers' Oil Can with Regular Straight Nozzle.....	Per Doz. \$11.00
No. 2452. Plumbers' Oil Can with Extra Long Bent Nozzle.....	11.00



PLUMBERS' GASOLINE TORCH

The plunger in the pump of this Torch is threaded at the top, and after pumping the plunger may be screwed down tight and always remains out of the way as shown in the cut. Reservoir is made of heavy drawn brass. The bottom of Reservoir is also brass. We have been supplying the trade with this Torch for several years and it gives excellent service.

No. 2501. Plumbers' Torch (Quart Size)	Each \$7.00
--	-------------

NOTE.—When requested we will give free with each Torch an Adjustable Soldering Iron Rest used for heating Soldering Coppers.

SOLDERING COPPERS



Our Soldering Coppers are made of Lake Copper. They are hand forged while some manufacturers cast them. We guarantee them not to crack when heated for repointing. The shanks are so forged as not to loosen from the effects of fire.

When ordering Soldering Coppers, care should be used in specifying the weights desired. The weights given below are for a pair and not for one Soldering Copper.

Weight per Pair			Per Pair
No. 2531.	1 pound	Soldering Coppers.....	\$1.10
No. 2532.	1½ pounds	Soldering Coppers.....	1.40
No. 2533.	2 pounds	Soldering Coppers.....	1.80
No. 2534.	2½ pounds	Soldering Coppers.....	2.20
No. 2535.	3 pounds	Soldering Coppers.....	2.60
No. 2537.	4 pounds	Soldering Coppers.....	3.40
No. 2539.	5 pounds	Soldering Coppers.....	4.20
No. 2541.	6 pounds	Soldering Coppers.....	5.20

WOOD HANDLES

FOR SOLDERING COPPERS, FILES, ETC.

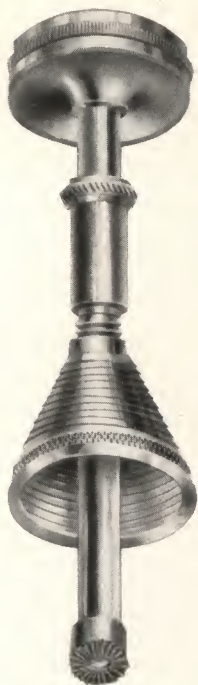
(CUT FULL SIZE OF No 2544)



These Wood Handles are the best we have ever seen. The long metal ferrule cannot work loose, and it prevents the handle from splitting. One of these Handles will outlast a dozen common handles.

			Per Doz.
No. 2543.	Wood Handle 4	Inches Long (For Files 4" to 8" Long)....	\$0.90
No. 2544.	Wood Handle 4½	Inches Long (For Files 8" to 12" Long)....	1.10
No. 2545.	Wood Handle 5	Inches Long (For Files 12" to 18" Long, also for Soldering Coppers)	1.30

NOTE.—Files are illustrated on pages 44 and 45.



BIBB SEAT DRESSER

Has threads on inside and outside of cone. Cone may be unscrewed and position reversed.

No. 2555. Bibb Seat Dresser with 4 Cutters..... Each \$3.50

SEPARATE CUTTERS

	Each
No. 2561. Cutter for $\frac{3}{8}$ Inch Bibb.....	\$0.70
No. 2563. Cutter for $\frac{1}{2}$ Inch Bibb.....	.70
No. 2565. Cutter for $\frac{5}{8}$ Inch Bibb.....	.70
No. 2567. Cutter for $\frac{3}{4}$ Inch Bibb.....	.70



"BUTTERWORTH" SHELL DRILLS

(CUT ONE-HALF SIZE)

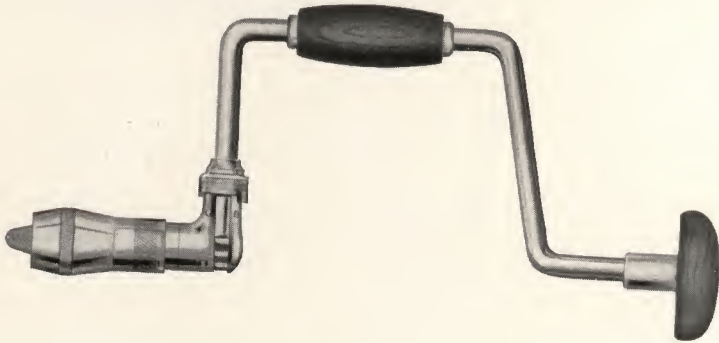
	Per Set
No. 2581. Complete Set (Including One Stem, One Drill and Four Shells)....	\$7.00

SEPARATE PARTS

	Each
No. 2591. Stem	\$0.70
No. 2592. $\frac{1}{4}$ Inch Twist Drill.....	.40
No. 2593. $2\frac{3}{32}$ Inch outside diameter Shell for drilling hole to tap for $\frac{1}{2}$ Inch Iron Pipe or to slip $\frac{3}{8}$ Inch Iron Pipe	1.30
No. 2595. $1\frac{5}{16}$ Inch outside diameter Shell for drilling hole to tap for $\frac{3}{4}$ Inch Iron Pipe or to slip $\frac{1}{2}$ Inch Iron Pipe	1.40
No. 2597. $1\frac{1}{32}$ Inches outside diameter Shell for drilling hole to tap for 1 Inch Iron Pipe or to slip $\frac{3}{4}$ Inch Iron Pipe	1.60
No. 2599. $1\frac{1}{2}$ Inches outside diameter Shell for drilling hole to tap for $1\frac{1}{4}$ Inches Iron Pipe or to slip 1 Inch Iron Pipe	2.40



PLUMBERS' BRACE



No. 2604. Plumbers' Brace. 10 Inches Sweep.....	Each \$2.50
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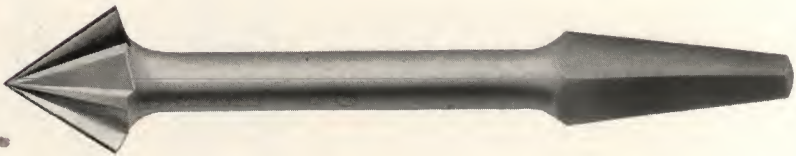
BIT HANDLE



No. 2608. Bit Handle	Each \$1.00
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PLUMBERS' COUNTERSINK

(CUT FULL SIZE)



This Countersink may be used for wood or metal. It is beveled at the correct angle for wood screws.

No. 2610. Plumbers' Countersink	Each \$0.50
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WOOD BITS



		Each
No. 2614.	$\frac{3}{8}$ Inch Wood Bit.....	\$0.70
No. 2616.	$\frac{1}{2}$ Inch Wood Bit.....	.90
No. 2618.	$\frac{5}{8}$ Inch Wood Bit.....	1.10
No. 2620.	$\frac{3}{4}$ Inch Wood Bit.....	1.20
No. 2622.	$\frac{7}{8}$ Inch Wood Bit.....	1.40
No. 2624.	1 Inch Wood Bit.....	1.60

EXPANSIVE BITS



		Each
No. 2632.	Expansive Bit (Bores from $\frac{1}{2}$ Inch to $1\frac{1}{2}$ Inches).....	\$1.60
No. 2633.	Expansive Bit (Bores from $\frac{7}{8}$ Inch to 3 Inches).....	2.40



BIT STOCK DRILLS

This set is packed in a leatherette case. It consists of one each of the following sizes: $\frac{1}{8}$ ", $\frac{5}{32}$ ", $\frac{3}{16}$ ", $\frac{7}{32}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ".

The Drills may be used for wood, iron, steel or brass.

	Per Set
No. 2637. Set of Bit Stock Drills....	\$2.50

PLUMBERS' NAIL PULLER



This is a handy tool for Plumbers. It may be used for pulling nails out of floors and wood work, also for unpacking cases. It will pull any size nail.

No. 2638. Plumbers' Nail Puller.....	Each \$1.50
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PLUMB BOB

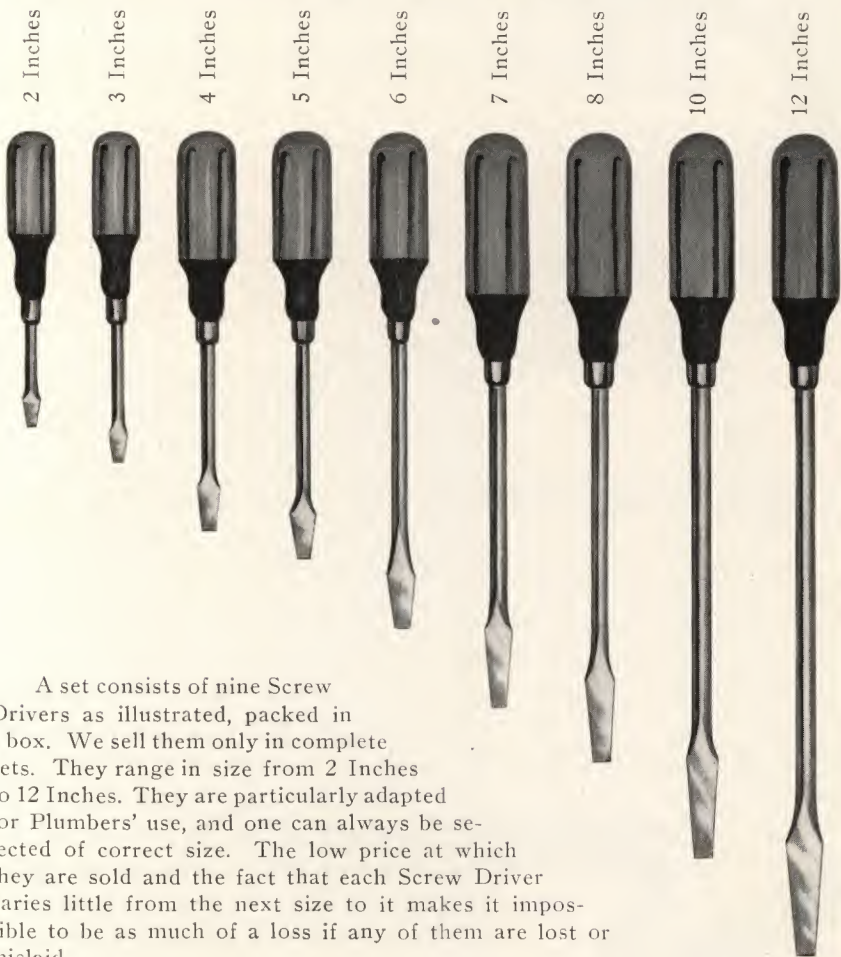
(CUT FULL SIZE)



No. 2640. Plumb Bob	Each \$0.60
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SET OF SCREW DRIVERS

Sizes below are the length of the steel from the ferrule to the end.



A set consists of nine Screw Drivers as illustrated, packed in a box. We sell them only in complete sets. They range in size from 2 Inches to 12 Inches. They are particularly adapted for Plumbers' use, and one can always be selected of correct size. The low price at which they are sold and the fact that each Screw Driver varies little from the next size to it makes it impossible to be as much of a loss if any of them are lost or mislaid.

No. 2641. Set of Screw Drivers (Nine to a set).....

Per Set
\$3.00

PIPE BENDERS



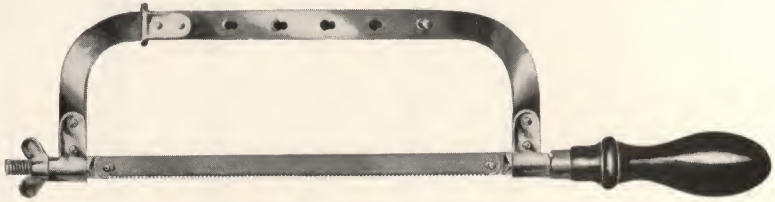
MADE OF THE VERY BEST SPRING STEEL.

No. 2661.	1	Inch	Pipe Bender.....	Each \$1.00
No. 2663.	1¼	Inches	Pipe Bender.....	1.20
No. 2665.	1½	Inches	Pipe Bender.....	1.60
No. 2667.	2	Inches	Pipe Bender.....	2.00

BENDING PIN



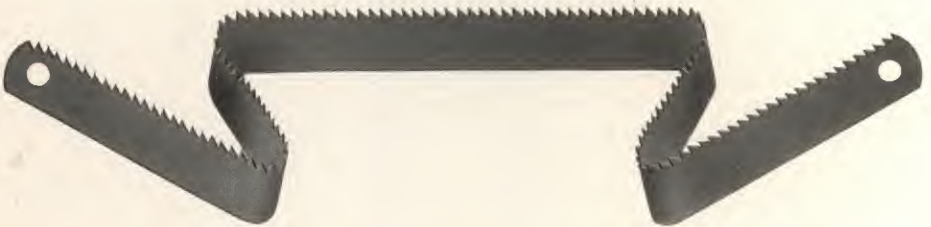
No. 2671. Bending Pin Each \$0.50

NICKEL PLATED ADJUSTABLE BACK
HACK SAW FRAME

This Hack Saw Frame takes 8 Inches, 9 Inches, 10 Inches and 12 Inches Hack Saw Blades. Most Frames have round shanks at each end, and depend on a small pin to prevent the shank and blade from turning. As soon as the pin becomes worn the Frame is worthless. Our Frame has square shanks at each end and the blade is kept perpendicular and perfectly rigid.

No. 2695. Nickel Plated Adjustable Back Hack Saw Frame..... Each \$2.00

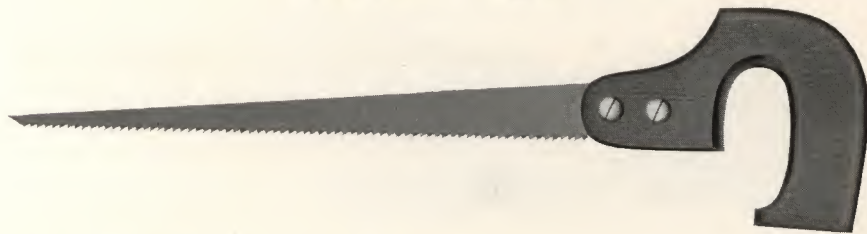
BUTTERWORTH FLEXIBLE HACK SAW BLADES



Our Flexible Hack Saw Blades are made of the very best tool steel. Only the teeth are tempered, but the backs remain annealed or soft. It is impossible to break them. We make them in two styles: FINE and REGULAR. Fine Blades should be used for brass, tubing and thin metals, and Regular Blades for general Plumbers' work.

					Per Doz.
No. 2701.	8 Inches	"Butterworth"	Flexible Fine Hack Saw Blade	.....	\$1.20
No. 2703.	9 Inches	"Butterworth"	Flexible Fine Hack Saw Blade	.....	1.30
No. 2705.	10 Inches	"Butterworth"	Flexible Fine Hack Saw Blade	.....	1.50
No. 2707.	12 Inches	"Butterworth"	Flexible Fine Hack Saw Blade	.....	1.90
No. 2719.	8 Inches	"Butterworth"	Flexible Regular Hack Saw Blade	...	1.20
No. 2721.	9 Inches	"Butterworth"	Flexible Regular Hack Saw Blade	...	1.30
No. 2723.	10 Inches	"Butterworth"	Flexible Regular Hack Saw Blade	...	1.50
No. 2725.	12 Inches	"Butterworth"	Flexible Regular Hack Saw Blade	...	1.90

COMPASS SAWS



		Per Doz.
No. 2750.	Compass Saw (Blade 10 Inches Long).....	\$7.00
No. 2752.	Compass Saw (Blade 12 Inches Long).....	7.00
No. 2754.	Compass Saw (Blade 14 Inches Long).....	7.00

PLUMBERS' SPECIAL SET TAPS AND DIES



This Set consists of one Die Stock, one Tap Wrench, one small Screw Driver, one large Screw Driver, six Taps, all different sizes and threads, six Dies the same sizes as Taps and one number 23 Twist Drill (number 10 Tap will tap a hole drilled with this size drill).

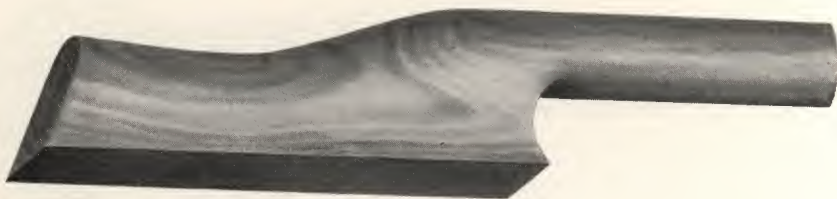
They are all packed in a substantial natural cherry box. The set is made especially for Plumbers, and is used for Bibbs, Ball Cocks, Closet Screws, Closet Bolts, Float Ball Rods, Threaded Brass Rods, etc. All parts are interchangeable and may be replaced by us. The Taps and Dies are made of the very best tool steel and are carefully tempered.

No. 2771.	Plumbers' Special Set Taps and Dies (Complete as illustrated) ..	\$10.00
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SEPARATE PARTS

		Each			Each
No. 2781.	Wood Box (without tools)	\$2.00	No. 2787.	Small Screw Driver	\$0.20
No. 2783.	Die Stock (without Dies)	1.00	No. 2789.	Large Screw Driver ....	.30
No. 2791.	No. 6 x 32 threads Tap. ....	.40	No. 2821.	No. 6 x 32 threads Die. ....	.90
No. 2795.	No. 7 x 32 threads Tap. ....	.40	No. 2825.	No. 7 x 32 threads Die. ....	.90
No. 2799.	No. 8 x 32 threads Tap. ....	.40	No. 2829.	No. 8 x 32 threads Die. ....	.90
No. 2803.	No. 10 x 24 threads Tap. ....	.40	No. 2833.	No. 10 x 24 threads Die. ....	.90
No. 2807.	No. 10 x 30 threads Tap. ....	.40	No. 2837.	No. 10 x 30 threads Die. ....	.90
No. 2811.	¼ Inch x 20 threads Tap. ....	.40	No. 2841.	¼ Inch x 20 threads Die. ....	.90
No. 2785.	Tap Wrench .....	.50	No. 2845.	(Regular No. 23.) Twist Drill .....	.20

BOXWOOD DRESSER



No. 2851. Boxwood Dresser	Per Doz.
(CUT ONE-HALF SIZE) (CUT ONE-HALF SIZE)	\$16.00



Triangle Shave
Hook
No. 2871



Oval Shave
Hook
No. 2882.

SHAVE HOOKS

The blades of these Shave Hooks
are made of the best tool steel.

No. 2871. Triangle Shave	Per Doz.
Hook	\$6.00
No. 2882. Oval Shave Hook	6.00

DRIFT PLUGS



No. 2901.	1	Inch	Drift Plug	Per Doz.
No. 2903.	1 1/4	Inches	Drift Plug	\$3.80
No. 2905.	1 1/2	Inches	Drift Plug	4.00
No. 2907.	2	Inches	Drift Plug	4.10
				4.40

CHIPPING KNIFE
MADE OF BEST TOOL STEEL
(CUT ONE-THIRD SIZE)



No. 2919. Chipping Knife Each \$1.00

TAP BORERS
MADE OF BEST TOOL STEEL
(CUT ONE-HALF SIZE) (CUT ONE-HALF SIZE)



No. 2921. Tap Borer, New York
Pattern Per Doz. \$7.00



No. 2932. Tap Borer, Philadel-
phia Pattern Per Doz. \$7.00



TURN PINS

	Dimension of Largest Outside Diameter	Per Doz.
No. 2941. (Regular No. 1.)	2 Inches.....	\$4.50
No. 2942. (Regular No. 2.)	2½ Inches.....	5.00
No. 2943. (Regular No. 3.)	3 Inches.....	5.50

WISE FOR NICKEL PLATED PIPE

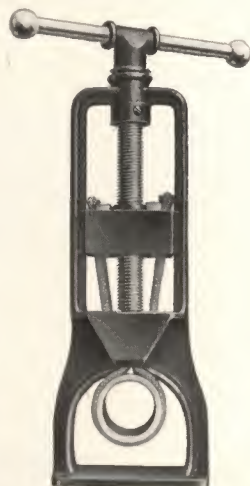
MALLEABLE

This is an excellent vise for holding finished pipe.

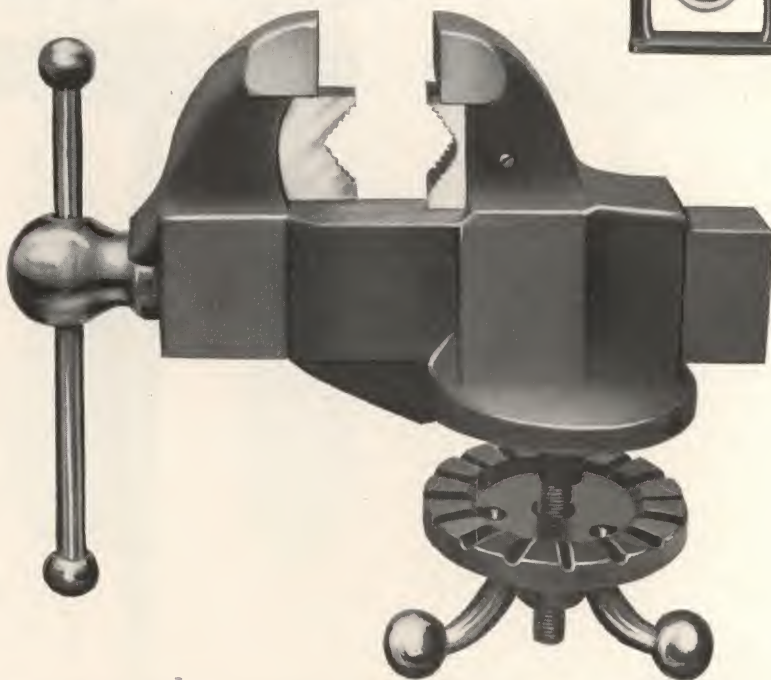
It can be used for any size pipe from $\frac{1}{8}$ Inch to 2 Inches.

To prevent slipping use pulverized resin, chalk or plaster of paris on the strap.

	Each
No. 2945. Vise for Nickel Plated Pipe.....	\$6.00
No. 2948. Separate Strap	1.00



PLUMBERS' COMBINATION VISES



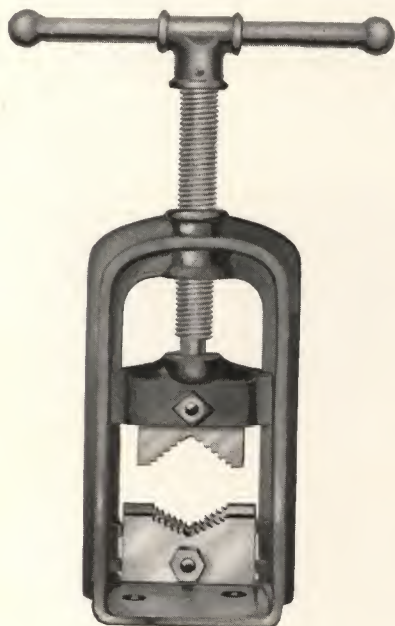
Every Plumbing Shop should have a "Plumbers' Combination Vise." It is made like a machinists' vise, and can be used for all kinds of work.

It has a set of pipe jaws similar to the jaws in a Pipe Vise. The front single pipe jaw is milled on each end. When one end is worn it can be reversed and fastened in place by a set screw.

When the Vise is not being used for pipe the pipe jaws can be easily taken out if desired, by loosening the set screws.

The jaws are milled from the very best tool steel and carefully tempered in oil.

	Width of Jaw	Holds Pipe	Price Complete	Price Per Set of Three Separate Jaws
No. 2951.	3½ Inches	$\frac{1}{8}$ to 2½ Inches.....	\$16.00	\$3.00
No. 2952.	4¼ Inches	$\frac{1}{8}$ to 3½ Inches.....	20.00	3.60
No. 2953.	5 Inches	$\frac{1}{8}$ to 4½ Inches.....	28.00	4.20
No. 2954.	6 Inches	$\frac{1}{8}$ to 6 Inches.....	35.00	6.00



SMALL PIPE VISE FOR KIT MALLEABLE

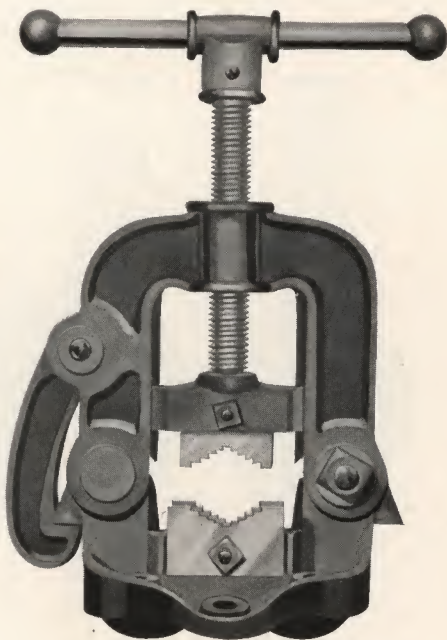
This Vise is intended for the Plumber's kit. It is made strong at all points that are subject to the greatest strain, and where possible at other points the weight has been reduced. The total weight of the Vise is only 7 pounds, and yet it will stand very severe service. The jaws are milled from the very best tool steel and carefully tempered in oil.

This style Vise is made only in one size and takes from $\frac{1}{8}$ Inch to $2\frac{1}{2}$ Inches pipe.

	Each
No. 2960. Pipe Vise	\$3.00
	Per Set
Set of Three Separate Jaws.....	\$1.80
	Each
Separate Screw and Handle.....	\$1.00

PIPE VISES MALLEABLE

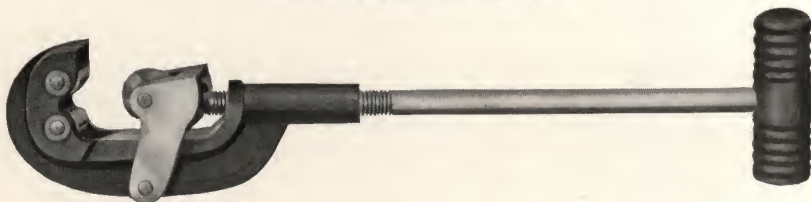
This is an exceptionally strong Vise for hard service. The base has lugs on each side so that the latch may hang on either side, making the Vise interchangeable. The jaws are milled from the very best tool steel and are carefully tempered in oil.



	Holds Pipe	Price Complete	Price Per Set of Three Separate Jaws	Price of Separate Screw and Handle
No. 2971.	$\frac{1}{8}$ to $2\frac{1}{2}$ Inches.....	\$4.00	\$1.80	\$1.00
No. 2972.	$\frac{1}{8}$ to $3\frac{1}{2}$ Inches.....	6.00	2.50	1.00
No. 2973.	$\frac{1}{8}$ to $4\frac{1}{2}$ Inches.....	10.00	4.00	1.50

SAUNDERS PATTERN PIPE CUTTERS

BUTTERWORTH MAKE



This Pipe Cutter has two rollers and one cutter wheel, and is used where a complete revolution around the pipe can be made. It is strong and rigid and is fully guaranteed. All parts are interchangeable.

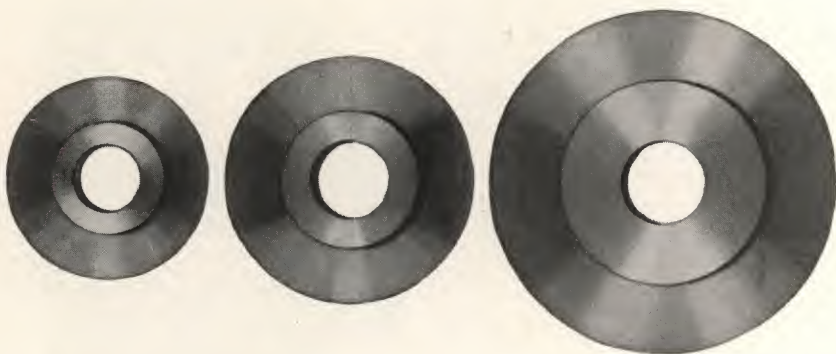
		Capacity	Price Complete	Price of Separate Handle and Screw	Price of Separate Block and Wheel
No. 2981.	(Regular No. 1.)	$\frac{1}{8}$ to 1 Inch.....	\$1.80	\$0.60	\$0.76
No. 2982.	(Regular No. 2.)	1 to 2 Inches....	2.70	.76	1.06
No. 2983.	(Regular No. 3.)	2 to 3 Inches....	6.60	1.06	1.66
No. 2984.	(Regular No. 4.)	$2\frac{1}{2}$ to 4 Inches....	10.80	2.10	2.10

SAUNDERS PATTERN PIPE CUTTER WHEELS

BUTTERWORTH MAKE

(CUTS FULL SIZE)

No. 3001	No. 3002	No. 3003
For No. 1 Pipe Cutter	For No. 2 Pipe Cutter	For No. 3 and No. 4 Pipe Cutter



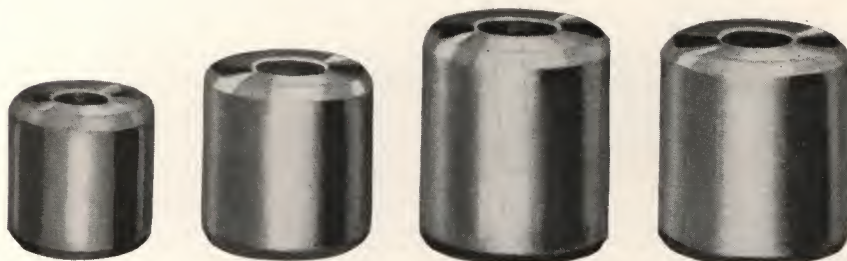
These Wheels are made of the very best tool steel, and are carefully tempered in oil. They are interchangeable and we guarantee them in every respect.

	Per Doz.
No. 3001. Wheel for No. 1 Pipe Cutter	\$3.00
No. 3002. Wheel for No. 2 Pipe Cutter	3.60
No. 3003. Wheel for Nos. 3 and 4 Pipe Cutter	4.80

SAUNDERS PATTERN PIPE CUTTER ROLLERS

BUTTERWORTH MAKE

(CUTS FULL SIZE)



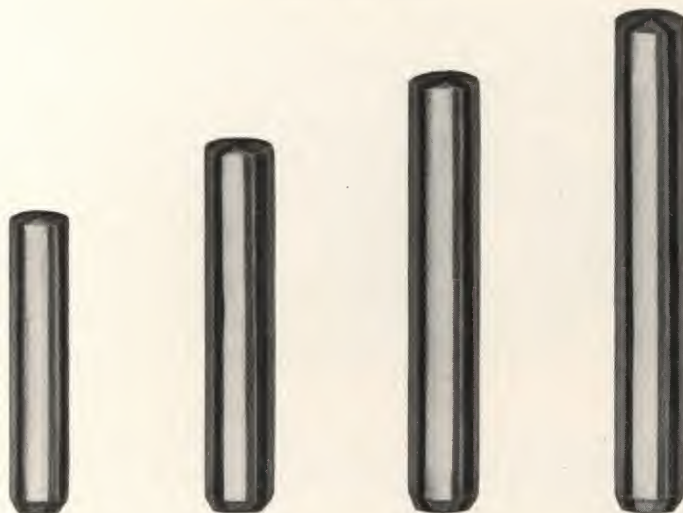
No. 3021 No. 3022 No. 3023 No. 3024
 For No. 1 Pipe Cutter For No. 2 Pipe Cutter For No. 3 Pipe Cutter For No. 4 Pipe Cutter

		Per Doz.
No. 3021.	Roller for No. 1 Pipe Cutter.....	\$3.00
No. 3022.	Roller for No. 2 Pipe Cutter.....	4.00
No. 3023.	Roller for No. 3 Pipe Cutter.....	6.00
No. 3024.	Roller for No. 4 Pipe Cutter.....	7.80

SAUNDERS PATTERN PIPE CUTTER PINS

BUTTERWORTH MAKE

(CUTS FULL SIZE)

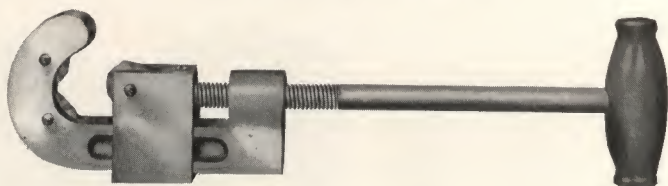


No. 3031 No. 3032 No. 3033 No. 3034
 For No. 1 For No. 2 For No. 3 For No. 4
 Pipe Cutter Pipe Cutter Pipe Cutter Pipe Cutter

		Per Doz.
No. 3031.	Pin for No. 1 Pipe Cutter.....	\$1.20
No. 3032.	Pin for No. 2 Pipe Cutter.....	1.20
No. 3033.	Pin for No. 3 Pipe Cutter.....	1.80
No. 3034.	Pin for No. 4 Pipe Cutter.....	1.80

BARNES PATTERN PIPE CUTTER

BUTTERWORTH MAKE



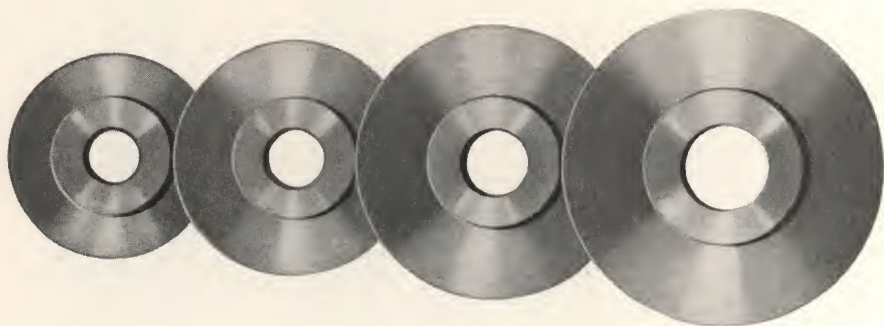
This Pipe Cutter has three wheels and is used where it is impossible to make a complete revolution around the pipe. It is strong and rigid and is fully guaranteed. All parts are interchangeable.

		Capacity	Price Complete	Price of Separate Handle and Screw	Price of Separate Slide	Price of Separate Body
No. 3061.	(Regular No. 1.)	$\frac{1}{8}$ to 1 Inch..	\$2.26	\$0.50	\$0.38	\$0.88
No. 3062.	(Regular No. 2.)	$\frac{1}{2}$ to 2 Inches	3.00	.64	.50	1.30
No. 3063.	(Regular No. 3.)	$1\frac{1}{2}$ to 3 Inches	5.00	1.12	1.00	2.28
No. 3064.	(Regular No. 4.)	$2\frac{1}{2}$ to 4 Inches	10.00	2.26	2.26	4.76

BARNES PATTERN PIPE CUTTER WHEELS

BUTTERWORTH MAKE

(CUTS FULL SIZE)



No. 3081
For No. 1
Pipe Cutter

No. 3082
For No. 2
Pipe Cutter

No. 3083
For No. 3
Pipe Cutter

No. 3084
For No. 4
Pipe Cutter

These Wheels are made of the very best tool steel and are carefully tempered in oil.

They are interchangeable and we guarantee them in every respect.

	Per Doz.
No. 3081. Wheel for No. 1 Pipe Cutter.....	\$3.00
No. 3082. Wheel for No. 2 Pipe Cutter.....	3.60
No. 3083. Wheel for No. 3 Pipe Cutter.....	4.80
No. 3084. Wheel for No. 4 Pipe Cutter.....	6.00

BARNES PATTERN PIPE CUTTER PINS

BUTTERWORTH MAKE

(CUTS FULL SIZE)

No. 3101
For No. 1
Pipe Cutter



No. 3102
For No. 2
Pipe Cutter



No. 3103
For No. 3
Pipe Cutter



No. 3104
For No. 4
Pipe Cutter



No. 3101.	Pin for No. 1 Pipe Cutter.....	Per Doz. \$1.20
No. 3102.	Pin for No. 2 Pipe Cutter.....	1.20
No. 3103.	Pin for No. 3 Pipe Cutter.....	1.80
No. 3104.	Pin for No. 4 Pipe Cutter.....	2.40

MONKEY WRENCHES



No. 3131.	6 Inches Monkey Wrench.....	Each \$1.00
No. 3132.	8 Inches Monkey Wrench.....	1.10
No. 3133.	10 Inches Monkey Wrench.....	1.40
No. 3135.	15 Inches Monkey Wrench.....	2.70
No. 3137.	21 Inches Monkey Wrench.....	4.00

WRENCH FOR NICKEL PLATED PIPE



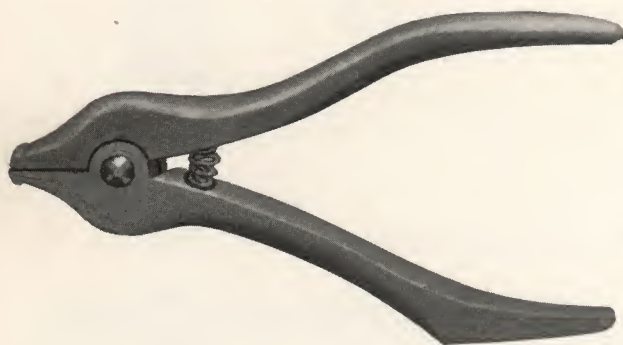
This is an excellent wrench for gripping finished pipe. It can be used on any size pipe from $\frac{1}{4}$ Inch to 2 Inches. To prevent slipping, use pulverized resin, chalk or plaster of paris on the strap.

No. 3151.	Wrench for Nickel Plated Pipe.....	Each \$2.00
No. 3154.	Separate Strap for No. 3151 Wrench.....	.50
No. 3157.	Separate Strap for Warnock Pipe Wrench (Butterworth Make)	.50

NICKEL PLATED COMBINATION PLIERS



No. 3161.	6 Inches Nickel Plated Combination Pliers.....	Per Pair, \$1.50
No. 3167.	10 Inches Nickel Plated Combination Pliers.....	" 2.00
No. 3181.	Separate Bolt for 6 Inches Combination Pliers.....	Each, .16
No. 3182.	Separate Nut for 6 Inches Combination Pliers.....	" .08
No. 3187.	Separate Bolt for 10 Inches Combination Pliers.....	" .20
No. 3188.	Separate Nut for 10 Inches Combination Pliers.....	" .12



HOSE PLIERS

(CUT ONE-HALF SIZE)

These Pliers are used for fastening Hose Bands illustrated on page 73.

No. 3201. Hose Pliers. Per Pair, \$0.40



PLUMBERS' GRINDER

We have experimented with several styles of Grinders, but we have discontinued all except this one, as it meets all the Plumbers' requirements.

The grinding stone is 6 Inches outside diameter x 1 Inch wide. The Grinder should be run by foot pedal, but we furnish a handle with each Grinder for running it by hand power if desired.

No. 3205.	Plumbers' Grinder (complete with foot and hand power attachments)	Each \$11.50
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OIL STONE

(CUT ONE-HALF SIZE)

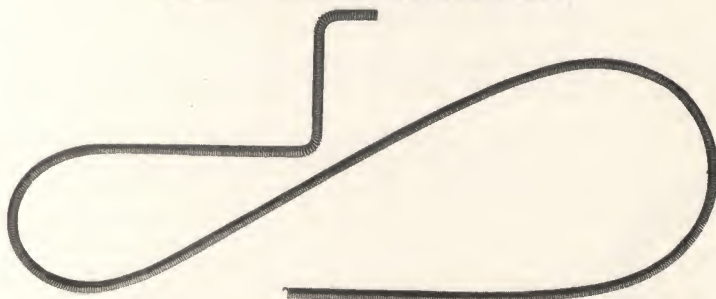


No. 3209. Oil Stone Each \$1.20

SOIL PIPE TESTING PLUGS

No. 3212.	2 Inches	Soil Pipe	Testing Plug	.....	Each \$1.30
No. 3213.	3 Inches	Soil Pipe	Testing Plug	.....	1.70
No. 3214.	4 Inches	Soil Pipe	Testing Plug	.....	2.00
No. 3215.	5 Inches	Soil Pipe	Testing Plug	.....	2.50
No. 3216.	6 Inches	Soil Pipe	Testing Plug	.....	3.30

NOTE.—Separate Testing Rings are illustrated on page 32.

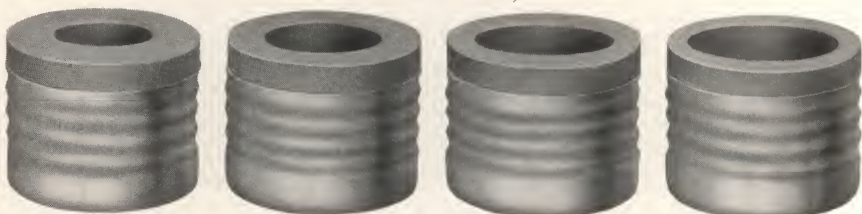
COIL WIRE GRABBER

Our Coil Wire Grabber is flexible and readily conforms to the bends and turns in pipe while it is being turned by the handle, and it will quickly remove obstacles in pipes, closets, etc. It is made of the best spring wire and will not kink or break.

No. 3231.	Coil Wire Grabber.	5½ Feet Long	.....	Each \$2.00
No. 3232.	Coil Wire Grabber.	10 Feet Long	.....	3.50

ANTI-SPLASHING FILTERS

(CUTS FULL SIZE)



No. 3241

No. 3243

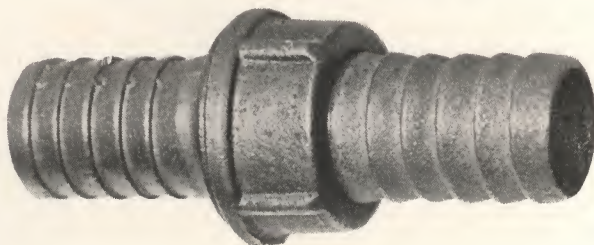
No. 3245

No. 3247

We have discontinued the Long style Anti-Splashing Filters as they were objectionable on account of being too long, and they were in the way of pans, kettles, pitchers, etc., in the sink. They were easily knocked off the Bibb. This short pattern illustrated above is cheaper and yet does the work better than the long style. The large Rubber Washer may be taken out if desired and the Anti-Splashing Filter may then be used on Hose Bibbs.

		Size of Bibb	Size of Hole in Rubber	Per Doz.
No. 3241.	Anti-Splashing Filter.	$\frac{3}{8}$ Inch	$\frac{9}{16}$ Inch.....	\$0.70
No. 3243.	Anti-Splashing Filter.	$\frac{1}{2}$ Inch	$\frac{5}{8}$ Inch.....	.70
No. 3245.	Anti-Splashing Filter.	$\frac{5}{8}$ Inch	$\frac{3}{4}$ Inch.....	.70
No. 3247.	Anti-Splashing Filter.	$\frac{3}{4}$ Inch	$\frac{13}{16}$ Inch.....	.70

HOSE COUPLINGS (CAST BRASS)

(CUT FULL SIZE OF NO. 3252— $\frac{3}{4}$ INCH)

		Per Doz.
No. 3251.	$\frac{1}{2}$ Inch Hose Coupling complete as illustrated.....	\$2.00
No. 3252.	$\frac{3}{4}$ Inch Hose Coupling complete as illustrated.....	2.00
No. 3257.	$\frac{1}{2}$ Inch Hose Coupling. Female Parts (2 Pieces).....	1.50
No. 3258.	$\frac{3}{4}$ Inch Hose Coupling. Female Parts (2 Pieces).....	1.50

NOTE.—Hose Couplings will always be sent complete unless otherwise specified.

HOSE WASHERS

Inside Hose Washers are used to connect the female part of the Hose Coupling to the bibb. Outside Hose Washers are used to connect the male part of the Hose Coupling to the hose nozzle.



(CUT FULL SIZE OF INSIDE HOSE WASHER)

		Per Pound
No. 3271.	Inside Hose Washer. Rubber.....	\$1.20
No. 3272.	Outside Hose Washer. Rubber.....	1.20
		Per 100
No. 3273.	Inside Hose Washer. Leather.....	\$0.80
No. 3274.	Outside Hose Washer. Leather.....	.80

NOTE.—Inside Hose Washers will always be sent unless otherwise specified.

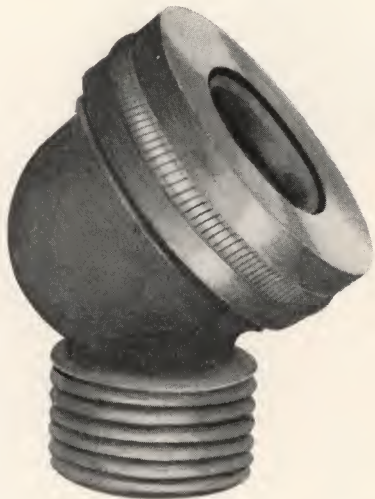
HOSE ATTACHMENTS (BRASS)

FOR CONNECTING HOSE TO BIBBS WITHOUT THREADS

(CUTS FULL SIZE)



No. 3281. Small Hose Attachment



No. 3282. Large Hose Attachment

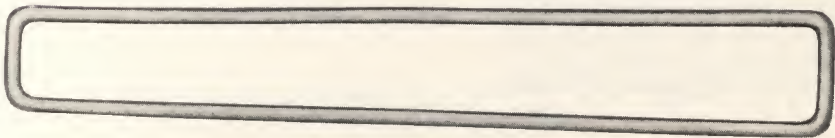
Per Doz.

No. 3281. Small Hose Attachment complete with Rubber Washer..... \$6.00

No. 3282. Large Hose Attachment complete with Rubber Washer..... 6.00

NOTE.—Rubber Hose Attachment Washers are illustrated on page 12.

HOSE BANDS (BRASS)



Per Gross

No. 3302. (Regular No. 2) for hose and tubing under $\frac{1}{2}$ Inch..... \$2.00

No. 3304. (Regular No. 4) for $\frac{1}{2}$ Inch 3 or 4 Ply Hose 2.00

No. 3306. (Regular No. 6) for $\frac{3}{4}$ Inch 3 Ply Hose 2.00

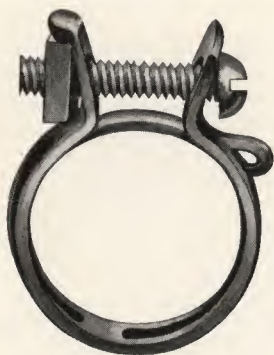
No. 3308. (Regular No. 8) for $\frac{3}{4}$ Inch 4 Ply Hose 2.00

No. 3310. (Regular No. 10) for 1 Inch 3 Ply Hose 3.60

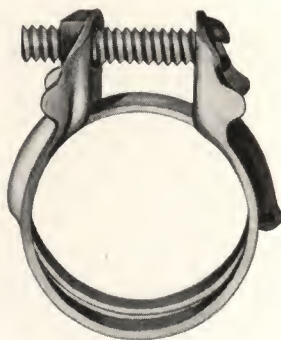
No. 3312. (Regular No. 12) for 1 Inch 4 Ply Hose 4.00

HOSE CLAMPS

GALVANIZED STEEL



BRASS

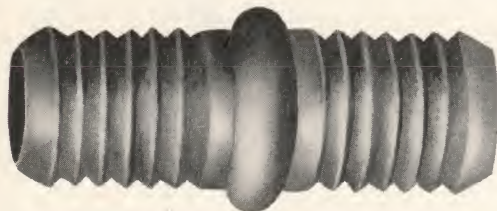


	Size of Hose	Ply of Hose		Per Gross
No. 3321.	$\frac{3}{8}$	x 3	Galvanized Steel	\$6.00
No. 3322.	$\frac{1}{2}$	x 2	Galvanized Steel	6.00
No. 3323.	$\frac{1}{2}$	x 3	Galvanized Steel	6.00
No. 3325.	$\frac{1}{2}$	x 4	Galvanized Steel	6.00
No. 3327.	$\frac{3}{4}$	x 3	Galvanized Steel	6.00
No. 3329.	$\frac{3}{4}$	x 4	Galvanized Steel	6.00
No. 3330.	$\frac{3}{4}$	x 5	Galvanized Steel	6.00
No. 3331.	1	x 3	Galvanized Steel	9.00
No. 3333.	1	x 4	Galvanized Steel	9.00
No. 3335.	$1\frac{1}{4}$	"L"	Galvanized Steel for Rubber Elbows and Plumbers' Friends	9.00
No. 3337.	2	"L"	Galvanized Steel for Rubber Elbows	12.00

	Size of Hose	Ply of Hose		Per Gross
No. 3351.	$\frac{3}{8}$	x 3	Brass	\$8.00
No. 3353.	$\frac{1}{2}$	x 3	Brass	8.00
No. 3355.	$\frac{1}{2}$	x 4	Brass	8.00
No. 3357.	$\frac{3}{4}$	x 3	Brass	8.00
No. 3359.	$\frac{3}{4}$	x 4	Brass	8.00
No. 3361.	1	x 3	Brass	21.60
No. 3363.	1	x 4	Brass	21.60

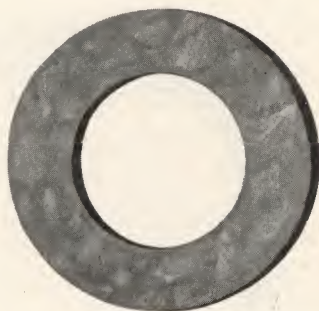
HOSE MENDERS
BRASS(CUT FULL SIZE OF $\frac{3}{4}$ INCH)

				Per Gross
No. 3381.	$\frac{1}{2}$	Inch	Brass Hose Mender	\$8.00
No. 3382.	$\frac{3}{4}$	Inch	Brass Hose Mender	8.00

HOSE MENDERS
GALVANIZED IRON(CUT FULL SIZE OF $\frac{3}{4}$ INCH)

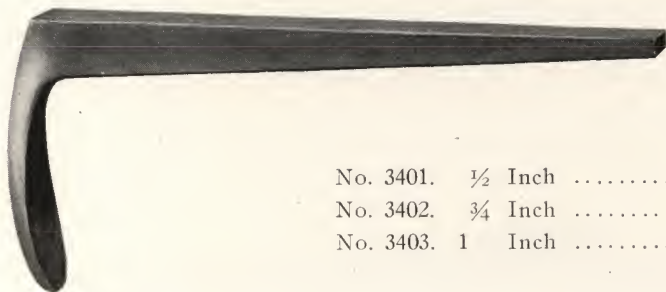
				Per Gross
No. 3384.	$\frac{1}{2}$	Inch	Galvanized Iron Hose Mender	\$6.00
No. 3385.	$\frac{3}{4}$	Inch	Galvanized Iron Hose Mender	7.00

CHAIN STAY WASHER BASIN COCK WASHER

GALVANIZED IRON
(CUT FULL SIZE)GALVANIZED IRON
(CUT FULL SIZE)

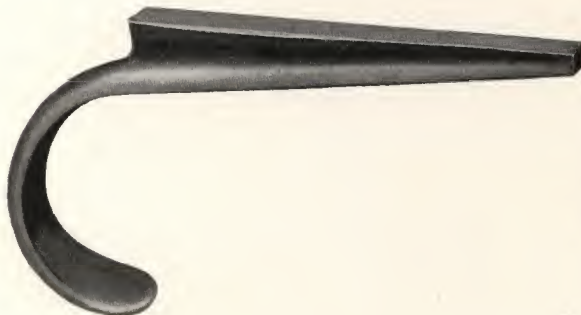
	Per 100		Per 100
No. 3391. Chain Stay Washer..	\$2.00	No. 3395. Basin Cock Washer..	\$2.00

WROUGHT PLUMBER HOOKS



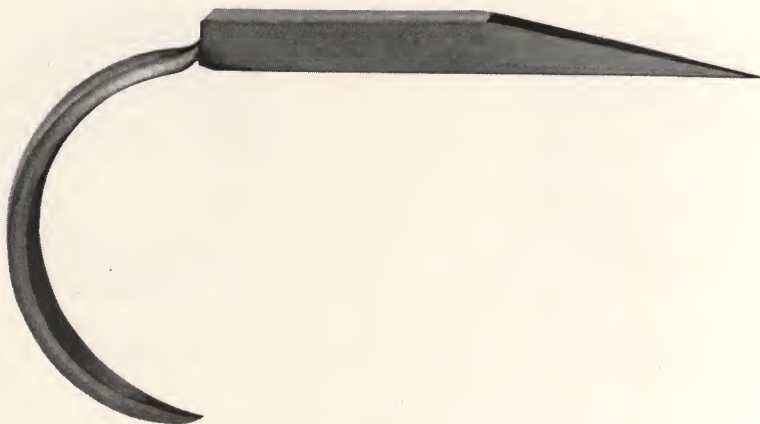
		Per 100
No. 3401.	1/2 Inch	\$0.94
No. 3402.	3/4 Inch	1.00
No. 3403.	1 Inch	1.16

MALLEABLE GAS PIPE HOOKS



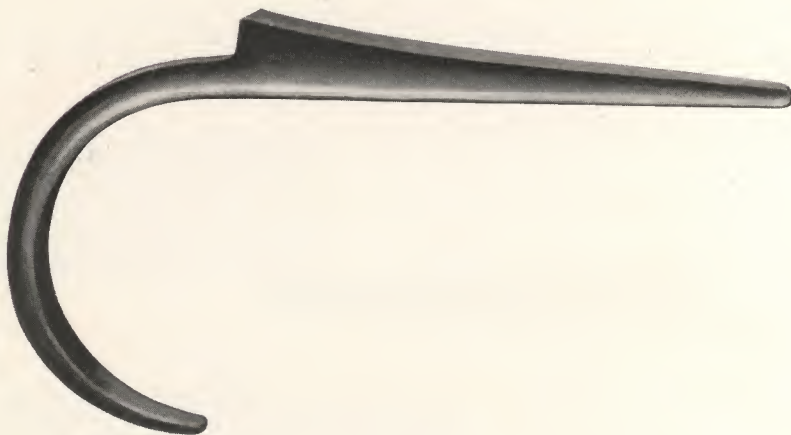
		Per 100
No. 3421.	1/4 Inch..	\$0.60
No. 3422.	3/8 Inch..	.70
No. 3423.	1/2 Inch..	.86
No. 3424.	3/4 Inch..	1.20
No. 3425.	1 Inch..	1.54

WROUGHT SOIL PIPE HOOKS



		Per 100
No. 3442.	2 Inches Wrought Soil Pipe Hook.....	\$4.30
No. 3443.	3 Inches Wrought Soil Pipe Hook.....	7.20
No. 3444.	4 Inches Wrought Soil Pipe Hook.....	10.50

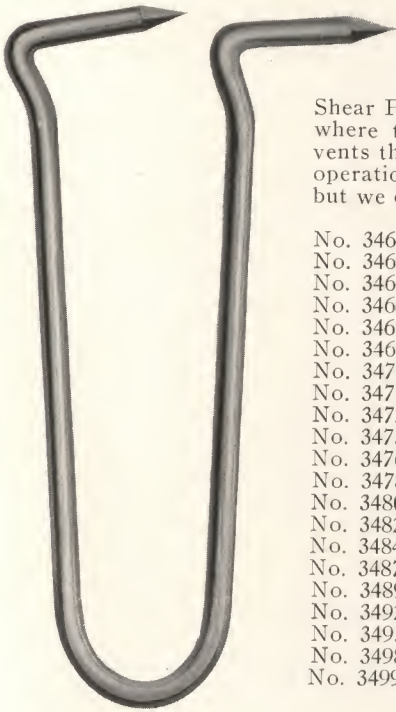
MALLEABLE SOIL PIPE HOOKS



		Per 100
No. 3452.	2 Inches Malleable Soil Pipe Hook.....	\$4.80
No. 3453.	3 Inches Malleable Soil Pipe Hook.....	7.20
No. 3454.	4 Inches Malleable Soil Pipe Hook.....	9.60

WIRE PIPE HOOKS

(CUT FULL SIZE OF $\frac{3}{8}$ INCH X
3 INCHES)



Our Wire Pipe Hooks have the points in the center of the wire. This is known as the Diamond Point. This makes them drive better than those with the points on the side of the wire known as the Shear Point. Ours also have a hump on both angles where they are struck with a hammer. This prevents the hooks from losing their shape. Both these operations make the cost of manufacture higher, but we do not increase our selling price.

				Per 100
No. 3461.	$\frac{3}{8}$ Inch	Pipe x	3 Inches Long.	\$0.76
No. 3464.	$\frac{3}{8}$ Inch	Pipe x	6 Inches Long.	1.06
No. 3465.	$\frac{1}{2}$ Inch	Pipe x	3 Inches Long.	.82
No. 3466.	$\frac{1}{2}$ Inch	Pipe x	4 Inches Long.	.92
No. 3467.	$\frac{1}{2}$ Inch	Pipe x	5 Inches Long.	1.02
No. 3468.	$\frac{1}{2}$ Inch	Pipe x	6 Inches Long.	1.16
No. 3470.	$\frac{1}{2}$ Inch	Pipe x	8 Inches Long.	1.44
No. 3471.	$\frac{3}{4}$ Inch	Pipe x	4 Inches Long.	1.00
No. 3472.	$\frac{3}{4}$ Inch	Pipe x	5 Inches Long.	1.10
No. 3473.	$\frac{3}{4}$ Inch	Pipe x	6 Inches Long.	1.26
No. 3476.	1 Inch	Pipe x	4 Inches Long.	1.12
No. 3478.	1 Inch	Pipe x	6 Inches Long.	1.50
No. 3480.	1 Inch	Pipe x	8 Inches Long.	1.84
No. 3482.	$1\frac{1}{4}$ Inches	Pipe x	4 Inches Long.	1.44
No. 3484.	$1\frac{1}{4}$ Inches	Pipe x	6 Inches Long.	1.90
No. 3487.	$1\frac{1}{4}$ Inches	Pipe x	10 Inches Long.	2.62
No. 3489.	$1\frac{1}{2}$ Inches	Pipe x	6 Inches Long.	2.04
No. 3492.	$1\frac{1}{2}$ Inches	Pipe x	10 Inches Long.	2.92
No. 3495.	2 Inches	Pipe x	6 Inches Long.	2.10
No. 3498.	2 Inches	Pipe x	10 Inches Long.	3.22
No. 3499.	2 Inches	Pipe x	12 Inches Long.	3.46

Wire Pipe Hooks are packed 50 in a box. We do not break boxes

TINNED PIPE STRAPS



			Per Pound
No. 3521.	$\frac{1}{4}$ Inch...		\$0.18
No. 3522.	$\frac{3}{8}$ Inch...		.18
No. 3523.	$\frac{1}{2}$ Inch...		.18
No. 3524.	$\frac{3}{4}$ Inch...		.18
No. 3525.	1 Inch...		.18
No. 3526.	$1\frac{1}{4}$ Inches.		.18
No. 3527.	$1\frac{1}{2}$ Inches.		.18
No. 3528.	2 Inches.		.18

Packed in 5 pound boxes

STEEL SINK BRACKETS



These Brackets are made of wrought steel and are therefore much stronger than Cast Iron Sink Brackets.

It is impossible to break them either in shipping or while in use.

Each Bracket has a movable brace which can be swung out of the way while the two top screws are being tightened.

Regular No. 1 Steel Sink Brackets are 12½ Inches Long (the part that fits under the sink) x 10½ Inches high (the part that fits against the wall). They take sinks up to 20 Inches wide.

Regular No. 2 Steel Sink Brackets are 14½ Inches long (the part that fits under the sink) x 12 Inches high (the part that fits against the wall). They take sinks up to 22 Inches wide.

			Per Pair
No. 3541.	(Regular No. 1.)	Plain Steel Sink Bracket.....	\$0.45
No. 3542.	(Regular No. 2.)	Plain Steel Sink Bracket.....	.54
No. 3551.	(Regular No. 1.)	Black Enameled Steel Sink Bracket.....	.45
No. 3552.	(Regular No. 2.)	Black Enameled Steel Sink Bracket.....	.54
No. 3561.	(Regular No. 1.)	Galvanized Steel Sink Bracket.....	.66
No. 3562.	(Regular No. 2.)	Galvanized Steel Sink Bracket.....	.75

CAST IRON SINK BRACKETS



Regular No. 1 Cast Iron Sink Brackets are 13 Inches long (the part that fits under the sink) x 10 Inches high (the part that fits against the wall). They take sinks up to 20 Inches wide.

Regular No. 2 Cast Iron Sink Brackets are 15 Inches long (the part that fits under the sink) x 11½ Inches high (the part that fits against the wall). They take sinks up to 22 Inches wide.

			Per Pair
No. 3581.	(Regular No. 1.)	Cast Iron Sink Bracket (Plain)	\$0.50
No. 3582.	(Regular No. 2.)	Cast Iron Sink Bracket (Plain) .....	.60
No. 3591.	(Regular No. 1.)	Cast Iron Sink Bracket (Galvanized) .....	.76
No. 3592.	(Regular No. 2.)	Cast Iron Sink Bracket (Galvanized) .....	.90

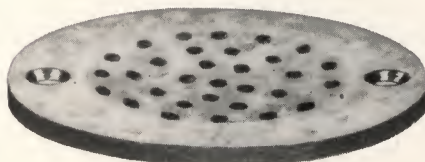
IRON SINK COLLARS

(CUT ONE-HALF SIZE)



		Per Doz.
No. 3601.	Iron Sink Collar (Plain)	\$1.20
No. 3605.	Iron Sink Collar (Galvanized)	1.70

IRON SINK STRAINERS



		Per Doz.
No. 3611.	4½ Inches outside diameter Iron Sink Strainer (Plain)	\$1.20
No. 3612.	4⅝ Inches outside diameter Iron Sink Strainer (Plain)	1.20
No. 3614.	4¾ Inches outside diameter Iron Sink Strainer (Plain)	1.30
No. 3616.	5 Inches outside diameter Iron Sink Strainer (Plain)	1.40
No. 3621.	4½ Inches outside diameter Iron Sink Strainer (Galvanized)	1.60
No. 3622.	4⅝ Inches outside diameter Iron Sink Strainer (Galvanized)	1.60
No. 3624.	4¾ Inches outside diameter Iron Sink Strainer (Galvanized)	1.70
No. 3626.	5 Inches outside diameter Iron Sink Strainer (Galvanized)	1.80

STAMPED STEEL SINK STRAINER

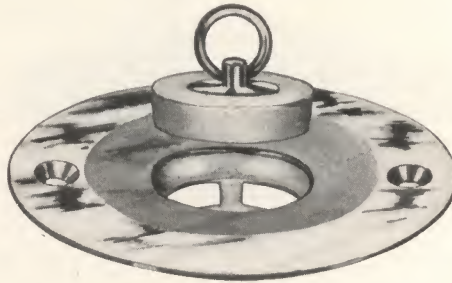
(CUT ONE-HALF SIZE)



		Per Doz.
No. 3631.	Stamped Steel Sink Strainer (Galvanized)	\$2.00

NICKEL PLATED BRASS PLUG SINK STRAINER

(CUT ONE-HALF SIZE)



- | | |
|--|----------|
| | Per Doz. |
| No. 3651. Nickel Plated Brass Plug Sink Strainer (with Rubber Plug) as illustrated | \$7.00 |
| No. 3652. Nickel Plated Brass Plug Sink Strainer (without Rubber Plug). | 5.50 |

NICKEL PLATED BRASS FLANGED SINK STRAINER

(CUT ONE-HALF SIZE)



This Strainer is flanged in such a way as to overlap an enameled sink. It will prevent chipping if used on a new sink, or it will cover the chipped part if used on an old sink.

- | | |
|--|----------|
| | Per Doz. |
| No. 3661. Nickel Plated Brass Flanged Sink Strainer..... | \$7.00 |

NOTE.—Bath and Basin Collars with flange similar to Sink Strainer are illustrated on page 90.

(CUT ONE-HALF SIZE)

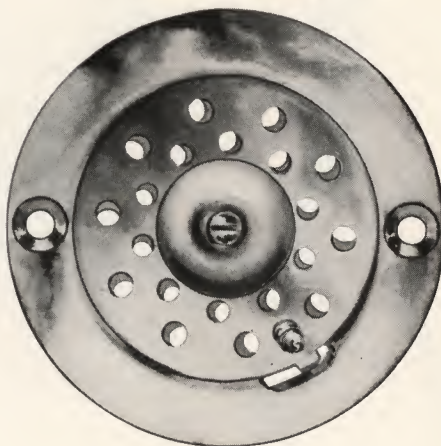


NICKEL PLATED BRASS PLAIN SINK STRAINER

Per Doz.

No. 3665. Nickel Plated Brass
Plain Sink Strainer..... \$3.30

(CUT ONE-HALF SIZE)



NICKEL PLATED BRASS CLOSING SINK STRAINER

Per Doz.

No. 3671. Nickel Plated Brass
Closing Sink Strainer... \$10.00

(CUT FULL SIZE OF 1 1/4 INCHES)

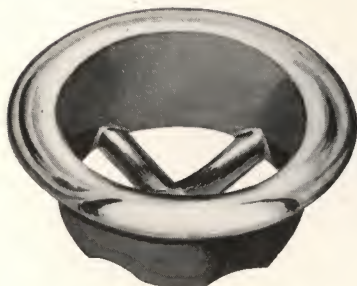


NICKEL PLATED BRASS BATH PLUGS

Per Doz.

No. 3681. 1 1/4 Inches N. P. Brass Bath
Plug \$3.00

No. 3682. 1 1/2 Inches N. P. Brass Bath
Plug 3.60



NICKEL PLATED BRASS SHOWER YOKE



By using our Shower Yoke ladies are enabled to take a shower bath without wetting the hair.

- | | |
|---|-------------|
| No. 3691. Nickel Plated Brass Shower Yoke without rubber tubing..... | Each \$1.30 |
| No. 3692. Nickel Plated Brass Shower Yoke with 5 feet of rubber tubing. | 1.90 |
- White Rubber Tubing is illustrated on page 29. No. 1251.

SHOWER BULB

(CUT FULL SIZE)



Our Shower Bulb is used for connecting the bibb to the rubber tubing on a Shower Yoke or Bath Sprinkler. It is made of the highest grade of white rubber and will fit any bibb. The small end has a brass tube inserted which is corrugated and cannot slip out of the bulb or the tubing.

- No. 3711. Shower Bulb (with brass tube as illustrated) ... Each \$0.60

White Rubber Tubing is illustrated on page 29. No. 1251.

(CUT FULL SIZE)



NICKEL PLATED BRASS SHOWER SPRINKLER

This Shower Sprinkler may be fit up with $\frac{3}{8}$ Inch Rubber Tubing illustrated on page 29, No. 1251. Separate Rubber Rings are illustrated on page 32.

No. 3732. Nickel Plated Brass Shower Sprinkler Per Doz.
\$6.50

NOTE.—The above price does not include Rubber Tubing.

NICKEL PLATED BRASS SHOWER CURTAIN HOOK

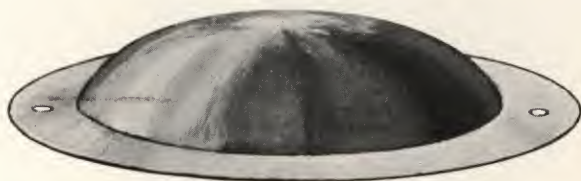
(CUT FULL SIZE)



No. 3738. Nickel Plated Brass Shower Curtain Hook Per Doz.
\$1.20

NICKEL PLATED BRASS TRAP COVER

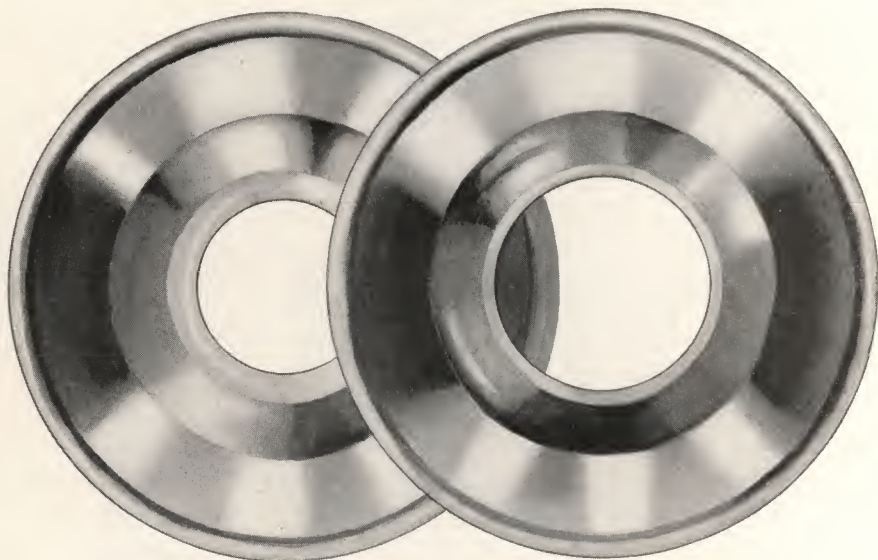
(CUT ONE-HALF SIZE)



No. 3741. Nickel Plated Brass Trap Cover Per Doz.
\$4.00

BIBB FLANGES (Regular)

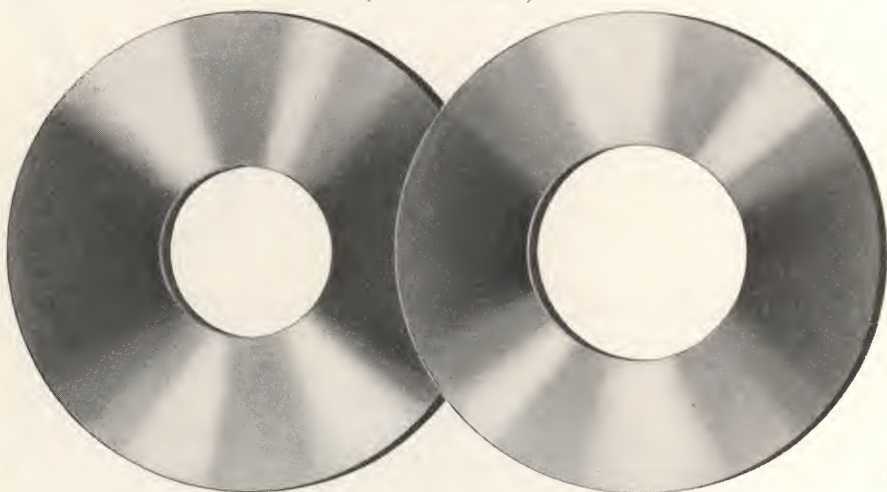
(CUTS FULL SIZE)

 $\frac{1}{2}$ Inch Regular Bibb Flange $\frac{3}{4}$ Inch Regular Bibb Flange

			Per Gross
No. 4001.	$\frac{1}{2}$ Inch Regular Bibb Flange	(Polished Brass)	\$9.00
No. 4002.	$\frac{3}{4}$ Inch Regular Bibb Flange	(Polished Brass)	9.00
No. 4011.	$\frac{1}{2}$ Inch Regular Bibb Flange	(Nickel Plated Brass)	11.00
No. 4012.	$\frac{3}{4}$ Inch Regular Bibb Flange	(Nickel Plated Brass)	11.00

BIBB FLANGES (Flat)

(CUTS FULL SIZE)

 $\frac{1}{2}$ Inch Flat Bibb Flange $\frac{3}{4}$ Inch Flat Bibb Flange

			Per Gross
No. 4021.	$\frac{1}{2}$ Inch Flat Bibb Flange	(Polished Brass)	\$12.00
No. 4022.	$\frac{3}{4}$ Inch Flat Bibb Flange	(Polished Brass)	12.00
No. 4031.	$\frac{1}{2}$ Inch Flat Bibb Flange	(Nickel Plated Brass)	14.00
No. 4032.	$\frac{3}{4}$ Inch Flat Bibb Flange	(Nickel Plated Brass)	14.00

NICKEL PLATED BRASS FLANGES

ALL NICKEL PLATED BRASS FLANGES ARE 2½ INCHES
OUTSIDE DIAMETER

(CUT FULL SIZE OF NO. 4061.)



IRON PIPE SIZES

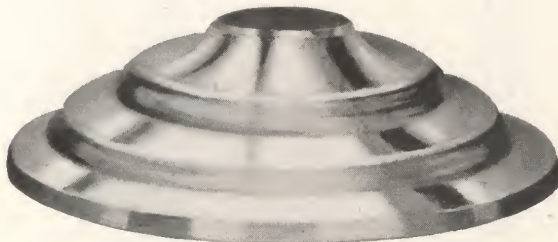
		Per Doz.
No. 4061.	¾ Inch Iron Pipe	
Size	.....	\$0.80
No. 4062.	½ Inch Iron Pipe	
Size	.....	.80

BRASS TUBING SIZE (SIZE OF HOLE ¾ INCH)

		Per Doz.
No. 4079.	¾ Inch Tubing	
Size	(fits our Iron	
Basin Supply Pipes		
with Nickel Plated		
Brass Casings illus-		
trated on page 86).....		\$0.80

BRACKET BACKS

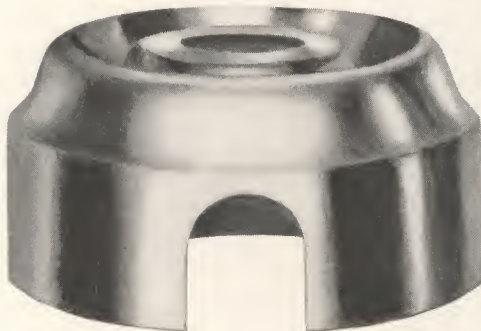
(CUT FULL SIZE)



		Per Gross
No. 4151.	Bracket Back (Polished Brass)	\$10.00
No. 4155.	Bracket Back (Nickel Plated Brass)	11.00

BOX PLATE

(CUT FULL SIZE)



		Per Gross
No. 4161.	Box Plate (Polished Brass)	\$18.00

BASIN SUPPLY PIPES

Our Brass Basin Supply Pipes are made of annealed brass tube which we furnish in either 14 gauge or $\frac{3}{8}$ Inch iron pipe size. We can furnish either style with Slip Joint Connections or Sockets.

The illustration below shows a section of our Iron Basin Supply Pipes with Nickel Plated Brass Casings. They are made of $\frac{3}{8}$ Inch galvanized iron pipe threaded on each end. A nickel plated brass casing which is a trifle shorter than the iron pipe is slipped over; and when the flange at the floor and the connection at the top are adjusted the galvanized iron pipe is entirely concealed.

They will not sweat, they have a heavier appearance than Brass Basin Supply Pipes, and, most important of all, they are cheaper than Brass Basin Supply Pipes. We can furnish them with either Slip Joint Connections or Sockets.

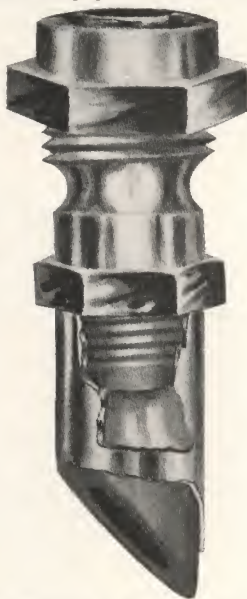
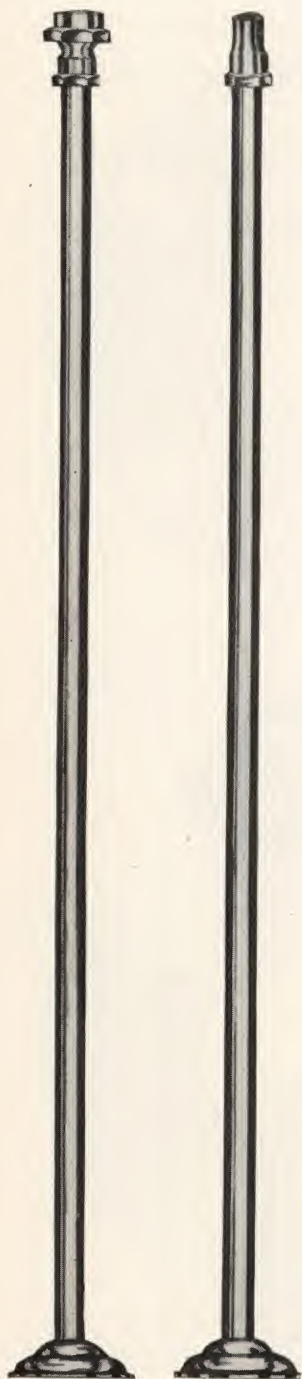


Illustration showing a section of our Iron Basin Supply Pipes with N. P. Brass Casings



Basin Supply Pipe with Slip Joint Connection Basin Supply Pipe with Socket

	Per Pair
No. 4201. Brass Basin Supply Pipes (Slip Joint Connection), $\frac{3}{8}$ Iron Pipe Size.....	\$3.00
No. 4212. Brass Basin Supply Pipes (Socket), $\frac{3}{8}$ Iron Pipe Size.....	2.60
No. 4223. Brass Basin Supply Pipes (Slip Joint Connection), 14 gauge	2.30
No. 4234. Brass Basin Supply Pipes (Socket), 14 gauge	1.90
No. 4245. Iron Basin Supply Pipes with N. P. Brass Casings (Slip Joint Connection).....	1.80
No. 4256. Iron Basin Supply Pipes with N. P. Brass Casings (Socket).....	1.50
NOTE.—Slip Joint Connections and Sockets are illustrated on Page 87.	
Some Plumbers use their odd lengths of $\frac{3}{8}$ Inch Iron Pipe to make Iron Basin Supply Pipes with Nickel Plated Brass Casings. For this purpose we list below Nickel Plated Brass Casings only.	
No. 4257. Nickel Plated Brass Casings only (26 $\frac{1}{4}$ Inches Long)	\$0.90



NICKEL PLATED BRASS BATH SUPPLY PIPES

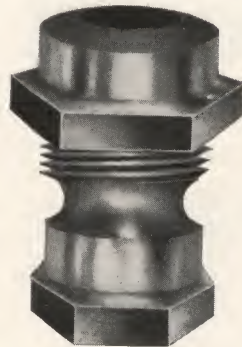
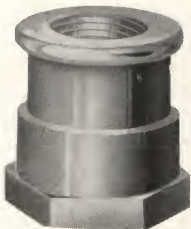
	Per Pair
No. 4258. Nickel Plated Brass Bath Supply Pipes, 14 Gauge, complete with Flange, as illustrated	\$1.60
No. 4259. Nickel Plated Brass Bath Supply Pipes, ½ Inch Iron Pipe Size, complete with Flange, as illustrated	2.40

NICKEL PLATED BRASS SLIP JOINT CONNECTION

(CUT FULL SIZE OF NO. 4271.)

NICKEL PLATED BRASS SOCKET

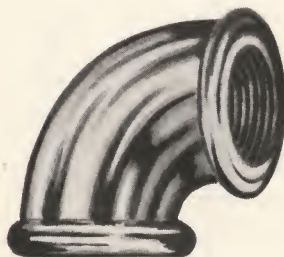
(CUT FULL SIZE)



	Per Doz.
No. 4261. Nickel Plated Brass Socket, ¾ Inch Iron Pipe Size at Base and ¼ Inch Iron Pipe Size at Top.....	\$2.40

NOTE.—We are now using this style socket with Beaded Top on Basin Supply Pipes illustrated on page 86.

	Dimensions are Iron Pipe Size.	Per Doz
No. 4271. ¾ Inch at Base x ¼ Inch at Top.....		\$4.80
No. 4273. ½ Inch at Base x ¾ Inch at Top.....		6.00
No. 4275. ½ Inch at Base x ½ Inch at Top.....		6.00



NICKEL PLATED BRASS ELBOWS

90°

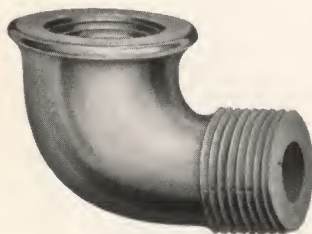
		Per Doz.
No. 4291.	$\frac{3}{8}$ Inch Nickel Plated Brass Elbow, 90°	\$3.50
No. 4301.	$\frac{1}{2}$ Inch Nickel Plated Brass Elbow, 90°	4.70
No. 4305.	$\frac{1}{2}$ Inch x $\frac{3}{8}$ Inch Nickel Plated Brass Reducing Elbow, 90°	5.80



NICKEL PLATED BRASS ELBOWS

45°

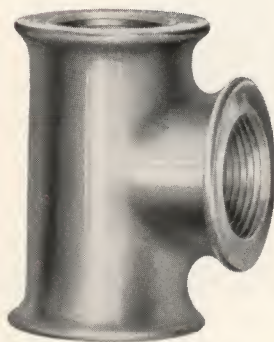
		Per Doz.
No. 4311.	$\frac{3}{8}$ Inch Nickel Plated Brass Elbow, 45°	\$4.30
No. 4312.	$\frac{1}{2}$ Inch Nickel Plated Brass Elbow, 45°	5.80
No. 4316.	$\frac{1}{2}$ Inch x $\frac{3}{8}$ Inch Nickel Plated Brass Reducing Elbow, 45°	5.80



NICKEL PLATED BRASS STREET ELBOWS

Per Doz.

No. 4321.	$\frac{3}{8}$ Inch x $\frac{3}{8}$ Inch Nickel Plated Brass Street Elbow	\$6.80
No. 4322.	$\frac{1}{2}$ Inch x $\frac{1}{2}$ Inch Nickel Plated Brass Street Elbow	9.40



NICKEL PLATED BRASS TEES

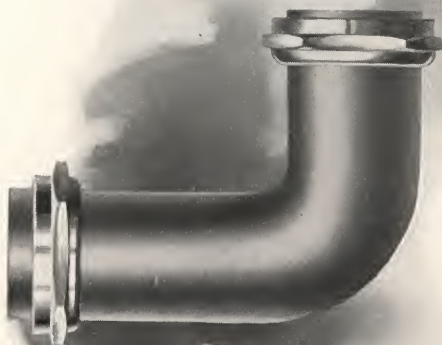
The first mentioned size is the top, the second size is the base and the third size is the side outlet.

Per Doz.

No. 4336.	$\frac{3}{8}$ x $\frac{3}{8}$ x $\frac{3}{8}$ Inch N. P. Brass Tee.	\$4.80
No. 4337.	$\frac{3}{8}$ x $\frac{3}{8}$ x $\frac{1}{2}$ Inch N. P. Brass Tee.	8.50
No. 4338.	$\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{3}{8}$ Inch N. P. Brass Tee.	8.50
No. 4339.	$\frac{1}{2}$ x $\frac{3}{8}$ x $\frac{3}{8}$ Inch N. P. Brass Tee.	8.50
No. 4340.	$\frac{1}{2}$ x $\frac{3}{8}$ x $\frac{1}{2}$ Inch N. P. Brass Tee.	8.50
No. 4341.	$\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ Inch N. P. Brass Tee.	6.80

TWO INCHES NICKEL PLATED BRASS ELBOWS

Complete with Nuts and Washers



- | | | |
|-----------|--|---------------------|
| No. 4355. | Two Inches Nickel Plated Brass Elbow, complete with Nuts and Washers, as illustrated. 6 Inches x 4½ Inches Back to End | Per Doz.
\$16.00 |
| No. 4359. | Two Inches Nickel Plated Brass Elbow, complete with Nuts and Washers, as illustrated. 6 Inches x 8 Inches Back to End | 22.00 |



TWO INCHES NICKEL PLATED BRASS OFFSETS

Complete with Nuts and Washers.

	Center to Center	Length	Per Doz.
No. 4363.	1 Inch	6 Inches	\$14.70
No. 4364.	1½ Inches	6 Inches	16.00
No. 4365.	2 Inches	6 Inches	16.50
No. 4366.	2½ Inches	6 Inches	18.00
No. 4367.	3 Inches	6 Inches	20.00
No. 4368.	3½ Inches	6 Inches	22.00
No. 4369.	4 Inches	6 Inches	24.00

BRASS NUTS



	Size of Thread		Diameter of Hole		Finish	Per Doz.
No. 4372.	1 $\frac{1}{4}$	Inches I. P. Size	1 $\frac{1}{4}$	Inches	Plain	\$1.40
No. 4373.	1 $\frac{1}{4}$	Inches I. P. Size	1 $\frac{1}{4}$	Inches	Nickel Plated	2.50
No. 4375.	1 $\frac{1}{2}$	Inches I. P. Size	1 $\frac{1}{4}$	Inches	Nickel Plated	3.00
No. 4377.	1 $\frac{1}{2}$	Inches I. P. Size	1 $\frac{3}{8}$	Inches	Nickel Plated	3.00
No. 4378.	1 $\frac{1}{2}$	Inches I. P. Size	1 $\frac{9}{16}$	Inches	Plain	2.50
No. 4379.	2	Inches I. P. Size	2	Inches	Nickel Plated	3.00

NICKEL PLATED BRASS FLANGED BATH AND BASIN COLLARS



These Collars are made in two sizes, one for Bath and one for Basin. They are flanged in such a way as to overlap enameled tubs and basins. They will prevent chipping if used on new work or will cover the chipped part if used on old work.

	Per Doz.
No. 4383. Nickel Plated Brass Flanged Bath Collar...	\$4.50
No. 4385. Nickel Plated Brass Flanged Basin Collar...	3.60

NOTE.—Sink Strainers with Flange similar to Bath and Basin Collars are illustrated on page 80.

NICKEL PLATED BRASS RING

(CUT FULL SIZE)

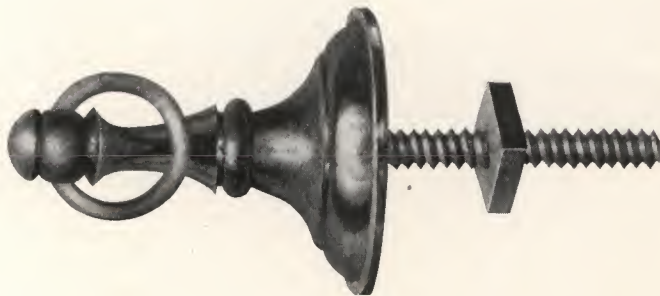


	Per Gross
No. 4470. Nickel Plated Brass Ring.....	\$3.00

This Ring is used for Chain Stays, Rubber Plugs, etc.

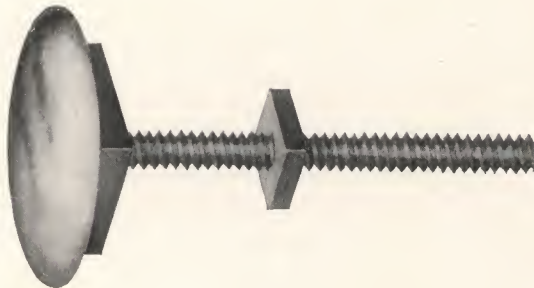
NICKEL PLATED BRASS
CHAIN STAY

(CUT FULL SIZE)



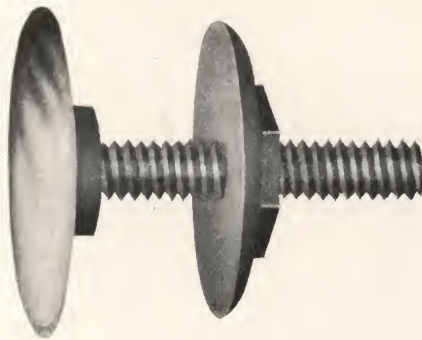
NICKEL PLATED
BRASS COCK
HOLE COVERS

(CUT FULL SIZE OF 1½ INCHES)



NICKEL PLATED
BRASS COCK
HOLE COVER

(CUT FULL SIZE)



Per Doz.

No. 4491.	1½ Inches Outside Diam-	\$3.00
eter		
No. 4495.	1¾ Inches Outside Diam-	
eter		
No. 4475.	Nickel Plated Brass Chain	
Stay		\$2.70
No. 4499.	1¾ Inches Outside Diam-	
eter		\$5.00

Per Doz.

CLOSET PULLS

(CUTS ONE-HALF SIZE)



Per Doz.

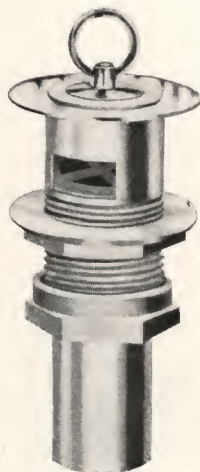
No. 4511. Small Oak Closet Pull \$1.50



Per Doz.

No. 4515. Large Oak Closet Pull \$3.00

NICKEL PLATED BRASS P. O. PLUGS



Per Doz.

No. 4531. P. O. Plug (like illustration) for Lead Pipe, Nickel Plated on
Top only \$6.00

No. 4535. P. O. Plug for Nickel Plated Basin Trap, all parts Nickel Plated
(Extra Long) 8.40

NICKEL PLATED BRASS CLOSET SEAT HINGE

(CUT TWO-THIRDS SIZE)



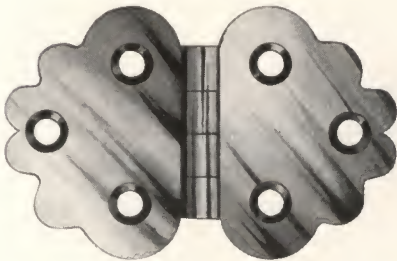
NOTE.—12 Nickel Plated Flat Head Brass Wood Screws $\frac{3}{4}$ Inch x No. 8 furnished with each pair.

	Per Doz. Pairs
No. 4543. Nickel Plated Brass Closet Seat Hinge (With Screws).....	\$30.00

NICKEL PLATED BRASS CLOSET SEAT HINGES

(CUT TWO-THIRDS SIZE)

(CUT TWO-THIRDS SIZE)



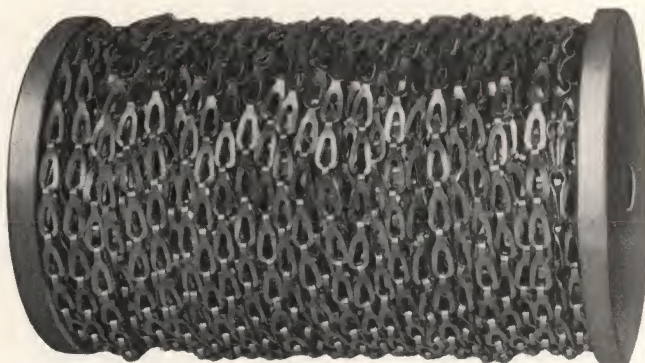
NOTE.—12 Nickel Plated Flat Head Brass Wood Screws $\frac{3}{4}$ Inch x No. 6 furnished with each pair.

	Per Doz. Pairs
No. 4547. Nickel Plated Brass Closet Seat Hinge (with screws)	\$6.00

NOTE.—18 Nickel Plated Flat Head Brass Wood Screws $\frac{3}{4}$ Inch x No. 6 furnished with each pair.

	Per Doz. Pairs
No. 4549. Nickel Plated Brass Closet Seat Hinge (with screws)	\$11.00

NICKEL PLATED BRASS PLUMBERS' CHAIN



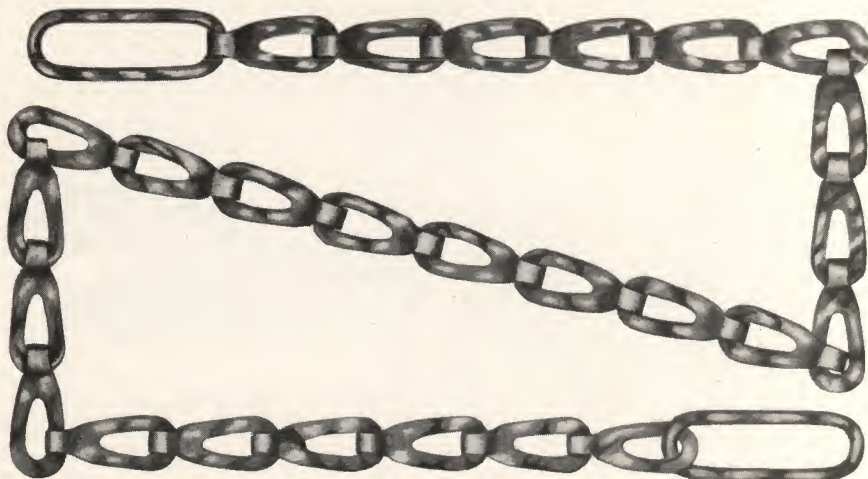
No. 4551.	(Regular No. 00) Nickel Plated Brass Plumbers' Chain, 500 ft. Reels...Per Reel,	\$15.00
No. 4555.	(Regular No. 00) Nickel Plated Brass Plumbers' Chain, 250 ft. Reels...Per Reel,	8.00
No. 4559.	(Regular No. 00) Nickel Plated Brass Plumbers' Chain, 12 yd. Boxes...Per Box,	1.50
No. 4563.	(Regular No. 0) Nickel Plated Brass Plumbers' Chain, 500 ft. Reels...Per Reel,	17.00
No. 4567.	(Regular No. 0) Nickel Plated Brass Plumbers' Chain, 250 ft. Reels...Per Reel,	9.00
No. 4571.	(Regular No. 0) Nickel Plated Brass Plumbers' Chain, 12 yd. Boxes...Per Box,	1.60

BRASS SAFETY CHAIN

(A Chain Similar to Plumbers' Chain but much heavier.)

	Per Foot
No. 4585. (Regular No. 2) Safety Chain, Plain Brass.....	\$0.06
No. 4589. (Regular No. 2) Safety Chain, Nickel Plated Brass.....	.07

NICKEL PLATED BRASS BASIN AND BATH CHAINS



	Per Doz.
No. 4601. Basin Chain with Snaps (No. 00 Nickel Plated Brass Plumbers' Chain).....	\$1.20
No. 4605. Basin Chain with Snaps (No. 0 Nickel Plated Brass Plumbers' Chain).....	1.40
No. 4609. Bath Chain with Snaps (No. 00 Nickel Plated Brass Plumbers' Chain).....	1.40
No. 4613. Bath Chain with Snaps (No. 0 Nickel Plated Brass Plumbers' Chain).....	1.60

JACK CHAIN

(CUTS FULL SIZE)



No. 4620
Regular
No. 14



No. 4618
Regular
No. 10



No. 4616
Regular
No. 8



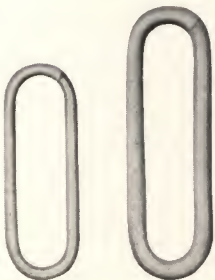
No. 4614
Regular
No. 6

Per Box of
12 Yards

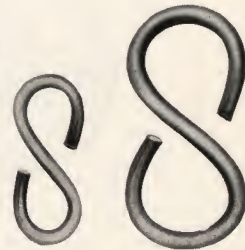
No. 4614.	(Regular No. 6) Jack Chain	\$1.82
No. 4616.	(Regular No. 8) Jack Chain	1.16
No. 4618.	(Regular No. 10) Jack Chain	1.12
No. 4620.	(Regular No. 14) Jack Chain .....	.56

NICKEL PLATED BRASS SNAPS AND S HOOKS

(CUTS FULL SIZE)



	Per Gross
No. 4621. N. P. Brass Small Snap	\$2.00
No. 4623. N. P. Brass Large Snap	2.20
No. 4626. N. P. Brass Small S Hook	2.00
No. 4628. N. P. Brass Large S Hook	2.20



NICKEL PLATED BRASS WASHERS

For Closet Screws, Closet Bolts, Nickel Plated Screws, etc.

(CUTS FULL SIZE)

No. 4631
\$1.20 Per 100No. 4633
\$1.30 Per 100No. 4634
\$1.60 Per 100**BUY BY THOUSANDS. IT IS CHEAPER**

(CUTS FULL SIZE)



No. 4641



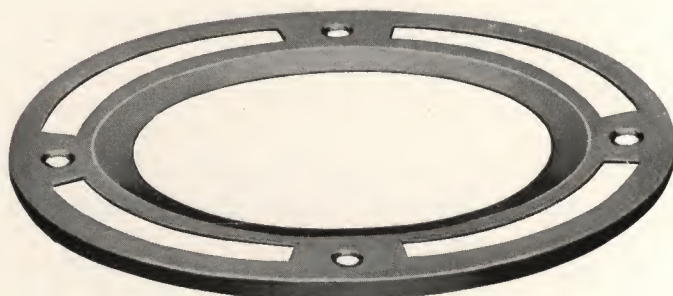
No. 4642

BUY BY THOUSANDS. IT IS CHEAPER**CLOSET SCREWS**

Per 100

No. 4641. Iron Closet Screw with Nickel
Plated Brass Head \$4.00No. 4642. Brass Closet Screw with Nickel
Plated Brass Head 5.00NOTE.—Heads of Closet Screws are $\frac{1}{4}$ Inch x
20 Threads.**CAST BRASS CLOSET FLOOR FLANGES**

(CUT ONE-HALF SIZE)



Per Doz.

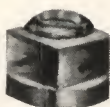
No. 4661. Cast Brass Closet Floor Flange, Regular \$4.08
No. 4663. Cast Brass Closet Floor Flange, Extra Heavy 8.16

NICKEL PLATED BRASS HEADS

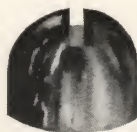
(CUTS FULL SIZE)

All Nickel Plated Brass Heads are $\frac{1}{4}$ Inch x 20 Threads.

No. 4672
Closed Head
\$3.00 Per 100



No. 4674
Open Head
\$3.00 Per 100



No. 4675
Closed Head
\$8.00 Per 100



No. 4676
Closed Head
\$12.00 Per 100



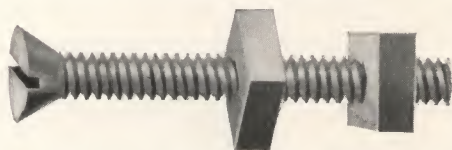
BRASS CLOSET BOLT

(CUT FULL SIZE)

No. 4681. Brass Closet Bolt with Nickel Plated Brass
Loose Head Per 100 \$7.40

NOTE.—Closet Bolt and Head are $\frac{1}{4}$ Inch x 20 Threads.

SINK BOLTS

(CUT FULL SIZE OF $2\frac{1}{4}$ INCHES)

			Per 100
No. 4701.	Iron Sink Bolt 1	Inch long with one iron nut	\$1.00
No. 4705.	Iron Sink Bolt $1\frac{1}{2}$	Inches long with two iron nuts	1.10
No. 4709.	Iron Sink Bolt $2\frac{1}{4}$	Inches long with two iron nuts	1.20
No. 4713.	Iron Sink Bolt 3	Inches long with two iron nuts	1.50
No. 4721.	Brass Sink Bolt 1	Inch long with one iron nut	3.30
No. 4725.	Brass Sink Bolt $1\frac{1}{2}$	Inches long with two iron nuts	3.50
No. 4729.	Brass Sink Bolt $2\frac{1}{4}$	Inches long with two iron nuts	4.00
No. 4733.	Brass Sink Bolt 3	Inches long with two iron nuts	6.00
No. 4741.	N. P. Brass Sink Bolt 1	Inch long with one iron nut	4.20
No. 4745.	N. P. Brass Sink Bolt $1\frac{1}{2}$	Inches long with two iron nuts	4.50
No. 4749.	N. P. Brass Sink Bolt $2\frac{1}{4}$	Inches long with two iron nuts	5.00
No. 4753.	N. P. Brass Sink Bolt 3	Inches long with two iron nuts	7.00
No. 4761.	Brass Sink Bolt 1	Inch long with one brass nut	5.60
No. 4765.	Brass Sink Bolt $1\frac{1}{2}$	Inches long with two brass nuts	8.00
No. 4769.	Brass Sink Bolt $2\frac{1}{4}$	Inches long with two brass nuts	8.50
No. 4773.	Brass Sink Bolt 3	Inches long with two brass nuts	10.40
No. 4781.	N. P. Brass Sink Bolt 1	Inch long with one brass nut	6.40
No. 4785.	N. P. Brass Sink Bolt $1\frac{1}{2}$	Inches long with two brass nuts	8.60
No. 4789.	N. P. Brass Sink Bolt $2\frac{1}{4}$	Inches long with two brass nuts	9.50
No. 4793.	N. P. Brass Sink Bolt 3	Inches long with two brass nuts	11.40

NOTE.—Sink Bolts $2\frac{1}{4}$ Inches long will always be sent unless otherwise specified.

BUY BY THOUSANDS. IT IS CHEAPER

THREADED BRASS ROD

(CUT FULL SIZE)

We furnish these rods in lengths of one foot.



Per Foot

No. 4811. Threaded Brass Rod $\frac{1}{4}$ Inch x 20 threads..... \$0.24



URINAL ANGLE PLATE

NICKEL PLATED BRASS

(CUT FULL SIZE)

Per Doz.

No. 4821. Urinal Angle Plate..... \$3.60

ROUND HEAD NICKEL PLATED EXPANSION BOLTS

MADE ENTIRELY OF BRASS

(CUT FULL SIZE)



Per 100

No. 4831.	Round Head Expansion Bolt (Screw 1	Inch long).....	\$7.00
No. 4833.	Round Head Expansion Bolt (Screw $1\frac{1}{4}$	Inches long).....	8.00
No. 4835.	Round Head Expansion Bolt (Screw $1\frac{1}{2}$	Inches long).....	9.00
No. 4837.	Round Head Expansion Bolt (Screw $1\frac{3}{4}$	Inches long).....	10.00
No. 4839.	Round Head Expansion Bolt (Screw 2	Inches long).....	11.00

BRASS COTTER PINS

The illustration shows a Box of 100 Cotter Pins.

(CUT ONE-HALF SIZE)



- | | | |
|-----------|--|-------------------|
| No. 4865. | Box of Brass Cotter Pins (contains 100 assorted $\frac{3}{4}$ Inch x $\frac{3}{32}$ Inch, 1 Inch x $\frac{3}{32}$ Inch and $1\frac{1}{4}$ Inches x $\frac{3}{32}$ Inch in a tin Box) | Per 100
\$1.50 |
| No. 4869. | Box of Brass Cotter Pins (contains 100 assorted $\frac{3}{4}$ Inch x $\frac{1}{8}$ Inch, 1 Inch x $\frac{1}{8}$ Inch and $1\frac{1}{4}$ Inches x $\frac{1}{8}$ Inch in a tin Box) | 1.70 |

(CUT ONE-HALF SIZE)



BIBB SCREWS AND NUTS

SCREWS AND NUTS ARE
BRASS

The illustration shows one-half size of a box of Bibb Screws and Nuts. They are assorted and fit all the various makes of Bibbs.

- | | | |
|-----------|---|---------------------|
| No. 4901. | Box of Bibb Screws and Nuts (contains $\frac{1}{2}$ Gross assorted Bibb Screws and $\frac{1}{2}$ Gross assorted Bibb Nuts in a tin Box) | Per Gross
\$3.00 |
| No. 4902. | Box of Bibb Screws (contains 1 Gross assorted Bibb Screws in a tin Box) | 3.00 |
| No. 4903. | Box of Bibb Nuts (contains 1 Gross assorted Bibb Nuts in a tin Box) | 3.00 |

BRASS WASH TRAY PLUG

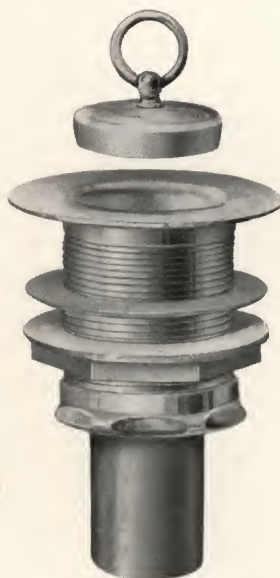


No. 4951. Brass Wash Tray Plug.....	Per Doz.
	\$4.00

NOTE.—We furnish these complete as illustrated with Stopper and Bolts.

LONG BRASS WASH TRAY PLUG

(CUT ONE-HALF SIZE OF NO. 4953)



No. 4953. Long Brass Wash Tray Plug with 1¼ Inches Tail Piece.....	Per Doz.
	\$12.00
No. 4955. Long Brass Wash Tray Plug with 1½ Inches Tail Piece.....	12.00

NOTE.—We furnish these complete as illustrated with stoppers.

CLOSET SPUD REDUCERS**NICKEL PLATED BRASS**

(CUT FULL SIZE OF 2 INCHES X 1¼ INCHES)



		Per Doz.
No. 4961.	Closet Spud Reducer, 2 Inches Iron Pipe Size x 1¼ Inches Iron Pipe Size	\$8.00
No. 4963.	Closet Spud Reducer, 2 Inches Iron Pipe Size x 1½ Inches Iron Pipe Size	8.00

CLOSET SPUD INCREASERS**NICKEL PLATED BRASS**
















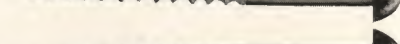




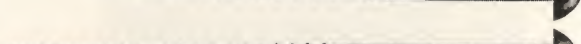
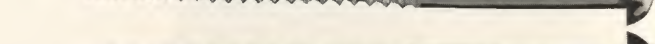

(CUT FULL SIZE OF 2 INCHES X 1¼ INCHES)



		Per Doz.
No. 4965.	Closet Spud Increaser, 2 Inches Iron Pipe Size x 1¼ Inches Iron Pipe Size	\$8.00
No. 4967.	Closet Spud Increaser, 2 Inches Iron Pipe Size x 1½ Inches Iron Pipe Size	8.00

ROUND HEAD NICKEL PLATED BRASS WOOD SCREWS

(CUTS FULL SIZE)

	Length Gauge	Per Gross		Length Gauge	Per Gross
	$\frac{3}{8}$ " x No. 5	\$0.90		1" x No. 10	\$2.52
	$\frac{1}{2}$ " x No. 5	.96		$1\frac{1}{4}$ " x No. 8	2.28
	$\frac{1}{2}$ " x No. 6	1.04		$1\frac{1}{4}$ " x No. 10	2.80
	$\frac{5}{8}$ " x No. 6	1.12		$1\frac{1}{2}$ " x No. 10	3.40
	$\frac{3}{4}$ " x No. 8	1.60		$1\frac{1}{2}$ " x No. 12	4.28
	1" x No. 8	1.96		$1\frac{3}{4}$ " x No. 10	3.76
	1" x No. 9	2.24		2" x No. 10	4.32
				2" x No. 12	5.48
				2" x No. 14	6.76
				$2\frac{1}{2}$ " x No. 10	7.60
				$2\frac{1}{2}$ " x No. 12	7.76
				$2\frac{1}{2}$ " x No. 14	8.60
				3" x No. 10	10.96
				3" x No. 14	11.44
				$3\frac{1}{2}$ " x No. 12	12.92
				4" x No. 14	15.20

FLAT HEAD BRIGHT IRON WOOD SCREWS



Length	Gauge	Per Gross	Length	Gauge	Per Gross	Length	Gauge	Per Gross
$\frac{3}{8}$ Inch	No. 5...	\$0.30	$1\frac{1}{4}$ Inches	No. 7.	\$0.44	2 Inches	No. 10.	\$0.70
$\frac{1}{2}$ Inch	No. 5...	.32	$1\frac{1}{4}$ Inches	No. 8.	.46	2 Inches	No. 11.	.74
$\frac{1}{2}$ Inch	No. 6...	.32	$1\frac{1}{4}$ Inches	No. 9.	.48	2 Inches	No. 12.	.80
$\frac{5}{8}$ Inch	No. 6...	.34	$1\frac{1}{4}$ Inches	No. 10.	.52	2 Inches	No. 13.	.88
$\frac{5}{8}$ Inch	No. 8...	.36	$1\frac{1}{4}$ Inches	No. 11.	.56	2 Inches	No. 14.	.98
$\frac{5}{8}$ Inch	No. 10...	.42	$1\frac{1}{4}$ Inches	No. 12.	.62	2 Inches	No. 16.	1.24
$\frac{3}{4}$ Inch	No. 6...	.34	$1\frac{1}{4}$ Inches	No. 13.	.68	$2\frac{1}{4}$ Inches	No. 8.	.70
$\frac{3}{4}$ Inch	No. 7...	.36	$1\frac{1}{4}$ Inches	No. 14.	.76	$2\frac{1}{4}$ Inches	No. 10.	.78
$\frac{3}{4}$ Inch	No. 8...	.38	$1\frac{1}{2}$ Inches	No. 8.	.52	$2\frac{1}{4}$ Inches	No. 12.	.88
$\frac{3}{4}$ Inch	No. 9...	.40	$1\frac{1}{2}$ Inches	No. 9.	.54	$2\frac{1}{4}$ Inches	No. 14.	1.06
$\frac{3}{4}$ Inch	No. 10...	.44	$1\frac{1}{2}$ Inches	No. 10.	.56	$2\frac{1}{4}$ Inches	No. 16.	1.40
$\frac{3}{4}$ Inch	No. 11...	.46	$1\frac{1}{2}$ Inches	No. 11.	.60	$2\frac{1}{2}$ Inches	No. 8.	.88
$\frac{7}{8}$ Inch	No. 7...	.38	$1\frac{1}{2}$ Inches	No. 12.	.66	$2\frac{1}{2}$ Inches	No. 10.	.96
$\frac{7}{8}$ Inch	No. 8...	.40	$1\frac{1}{2}$ Inches	No. 13.	.72	$2\frac{1}{2}$ Inches	No. 12.	1.04
$\frac{7}{8}$ Inch	No. 9...	.42	$1\frac{1}{2}$ Inches	No. 14.	.80	$2\frac{1}{2}$ Inches	No. 14.	1.16
$\frac{7}{8}$ Inch	No. 10...	.46	$1\frac{1}{2}$ Inches	No. 16.	1.12	$2\frac{1}{2}$ Inches	No. 16.	1.46
$\frac{7}{8}$ Inch	No. 11...	.50	$1\frac{3}{4}$ Inches	No. 8.	.60	3 Inches	No. 10.	1.26
$\frac{7}{8}$ Inch	No. 12...	.54	$1\frac{3}{4}$ Inches	No. 9.	.62	3 Inches	No. 12.	1.32
1 Inch	No. 7...	.40	$1\frac{3}{4}$ Inches	No. 10.	.64	3 Inches	No. 14.	1.40
1 Inch	No. 8...	.42	$1\frac{3}{4}$ Inches	No. 11.	.68	3 Inches	No. 16.	1.68
1 Inch	No. 9...	.44	$1\frac{3}{4}$ Inches	No. 12.	.72	$3\frac{1}{2}$ Inches	No. 12.	1.72
1 Inch	No. 10...	.48	$1\frac{3}{4}$ Inches	No. 13.	.80	$3\frac{1}{2}$ Inches	No. 14.	1.80
1 Inch	No. 11...	.52	$1\frac{3}{4}$ Inches	No. 14.	.90	$3\frac{1}{2}$ Inches	No. 16.	1.98
1 Inch	No. 12...	.56	$1\frac{3}{4}$ Inches	No. 16.	1.16	4 Inches	No. 14.	2.36
1 Inch	No. 13...	.64	2 Inches	No. 8.	.64	4 Inches	No. 16.	2.60
1 Inch	No. 14...	.68	2 Inches	No. 9.	.66	5 Inches	No. 16.	3.88

FLAT HEAD NICKEL PLATED BRASS WOOD SCREWS

			Per Gross
$\frac{3}{4}$ Inch	x No. 6 Flat Head Nickel Plated Brass Wood Screws.....		\$1.24
$\frac{3}{4}$ Inch	x No. 8 Flat Head Nickel Plated Brass Wood Screws.....		1.60
1 Inch	x No. 10 Flat Head Nickel Plated Brass Wood Screws.....		2.52
$1\frac{1}{2}$ Inches	x No. 10 Flat Head Nickel Plated Brass Wood Screws.....		3.40
2 Inches	x No. 10 Flat Head Nickel Plated Brass Wood Screws.....		4.32
$2\frac{1}{2}$ Inches	x No. 10 Flat Head Nickel Plated Brass Wood Screws.....		7.60

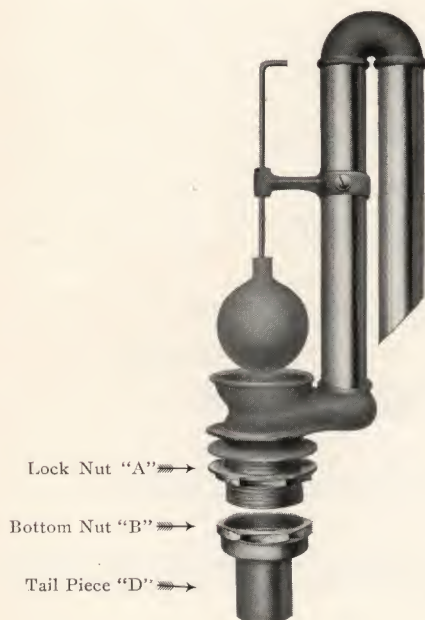
BRASS MACHINE SCREWS—ROUND HEAD

(CUTS FULL SIZE)

 $\frac{5}{8}$ In. x No. 10
Round Head1 In. x No. 10
Round Head $1\frac{1}{2}$ In. x No. 10
Round Head2 In. x No. 10
Round Head

NOTE.—No. 5147 fits Success Ball Cock.

	Length Under Head	Size Thread	Finish	Gross
No. 5147.	$\frac{5}{8}$ Inch	No. 10 x 24	Plain Brass	\$3.00
No. 5151.	1 Inch	No. 10 x 24	Plain Brass	3.00
No. 5155.	$1\frac{1}{2}$ Inches	No. 10 x 24	Plain Brass	4.00
No. 5159.	2 Inches	No. 10 x 24	Plain Brass	5.00
No. 5161.	$\frac{5}{8}$ Inch	No. 10 x 24	Nickel Plated Brass	4.00
No. 5163.	1 Inch	No. 10 x 24	Nickel Plated Brass	4.00
No. 5167.	$1\frac{1}{2}$ Inches	No. 10 x 24	Nickel Plated Brass	5.00
No. 5171.	2 Inches	No. 10 x 24	Nickel Plated Brass	6.00



HIGH TANK VALVE

Thread at base is $1\frac{1}{2}$ Inches Iron Pipe Size.

	Per Doz.
No. 5341. High Tank Valve (includes Tank Valve with Nickel Plated Brass Lock Nut "A," Rubber Ball and Wire)	\$26.00
No. 5343. Nickel Plated Brass Bottom Nut "B" threaded $1\frac{1}{2}$ Inches Iron Pipe Size x $1\frac{1}{4}$ Inches Slip	3.00
No. 5345. Brass Tail Piece "D" (used for $1\frac{1}{4}$ Inches Lead Pipe)	2.50
No. 5347. Separate Guide for Wire	3.60
No. 5349. Upper Wire (not shown in cut)	1.00

Separate Tank Balls are illustrated on Page 26, No. 1132.

Tank Ball Wire that fits in Tank Ball is the same as for Low Tank Valve (see 5357, Page 105).

LOW TANK VALVE

Thread at Base is 2 Inches Iron Pipe Size



Per Doz.

No. 5351. Tank Valve, complete as illustrated.. \$24.00

SEPARATE PARTS

Per Doz.

No. 5353. Separate Overflow Tube (1 Inch).... \$4.80

No. 5355. Separate Guide for Wire..... 3.60

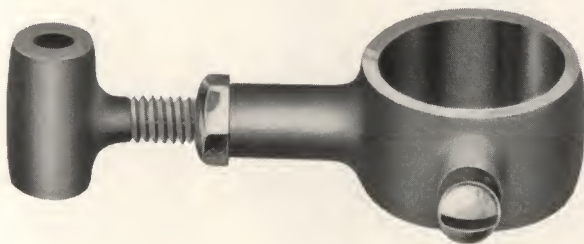
No. 5357. Separate Tank Ball Wire 1.00

No. 5359. Upper Wire (not shown in cut)..... 1.00

Separate Tank Balls are illustrated on page 27, No. 1138.

ADJUSTABLE TANK VALVE GUIDES

(CUT FULL SIZE OF NO. 5365)

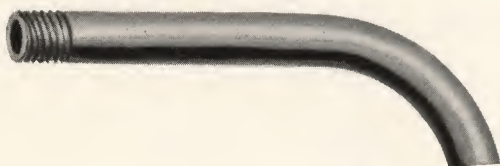


Per Doz.

No. 5365. Adjustable Tank Ball Guide for 1 Inch Overflow Tube..... \$6.00

No. 5366. Adjustable Tank Ball Guide for 1¼ Inches Overflow Tube..... 6.00

NOTE.—No. 5365 fits No. 5341 High Tank Valve, also No. 5351 Low Tank Valve.

**BRASS WASTE TUBE**

(CUT FULL SIZE OF NO. 5371)

	Outside Diameter	Per 100
No. 5370.	$1\frac{5}{64}$ Inch	\$5.00
No. 5371.	$1\frac{7}{64}$ Inch	5.00

FULLER ECCENTRIC WASHERS

(CUTS FULL SIZE)



No. 5391. Lead



No. 5393. Felt

	Per 100 Sets
No. 5390. Complete Set (2 Lead and 1 Felt) Fuller Eccentric Washers....	\$4.00

SEPARATE PARTS

	Per 100 Pieces
No. 5391. Lead Fuller Eccentric Washer	\$1.00
No. 5393. Felt Fuller Eccentric Washer	2.50

**FULLER COCK FIBRE WASHER**

(CUT FULL SIZE)

	Per 100
No. 5397. Fuller Cock Fibre Washer.....	\$1.00

REGULAR BRASS FULLER STEMSNo. 5402. $\frac{1}{2}$ Inch No. 5403. $\frac{5}{8}$ Inch No. 5404. $\frac{3}{4}$ Inch

(CUTS FULL SIZE)

	Per Doz.
No. 5402. $\frac{1}{2}$ Inch Fuller Stem (complete with Fuller Ball, Cap and Nut)...	\$2.60
No. 5403. $\frac{5}{8}$ Inch Fuller Stem (complete with Fuller Ball, Cap and Nut)...	2.60
No. 5404. $\frac{3}{4}$ Inch Fuller Stem (complete with Fuller Ball, Cap and Nut)...	3.50

No. 5412.
½ InchNo. 5413
⅝ InchNo. 5414
¾ Inch**BRASS FULLER
ECCENTRICS**

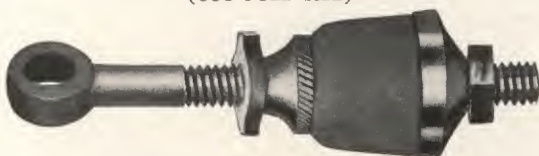
Per Doz.

No. 5412.	½ Inch Plain	
Brass		\$2.60
No. 5413.	⅝ Inch Plain	
Brass		2.60
No. 5414.	¾ Inch Plain	
Brass		3.50
No. 5417.	½ Inch Nickel	
Plated Brass		3.00
No. 5418.	⅝ Inch Nickel	
Plated Brass		3.00
No. 5419.	¾ Inch Nickel	
Plated Brass		4.00

(CUTS FULL SIZE)

ADJUSTABLE BRASS FULLER STEMS

(CUT FULL SIZE)



No. 5422.	½ Inch Adjustable Fuller Stem (complete as illustrated).....	Per Doz. \$3.20
No. 5423.	⅝ Inch Adjustable Fuller Stem (complete as illustrated).....	3.20

BRASS FULLER CAPS

(CUTS FULL SIZE)

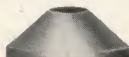
⅜ Inch



½ Inch



⅞ Inch



⅝ Inch



11/16 Inch



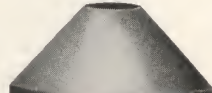
¾ Inch



⅞ Inch



1 Inch



Per Gross

No. 5451.	⅜ Inch Brass Fuller Cap...	\$4.00
No. 5452.	½ Inch Brass Fuller Cap...	4.00
No. 5453.	⅞ Inch Brass Fuller Cap...	4.00
No. 5454.	⅝ Inch Brass Fuller Cap...	4.00

Per Gross

No. 5455.	11/16 Inch Brass Fuller Cap..	\$4.00
No. 5456.	¾ Inch Brass Fuller Cap..	4.00
No. 5457.	⅞ Inch Brass Fuller Cap..	8.00
No. 5458.	1 Inch Brass Fuller Cap..	8.00



Gas Pillar
Brass



Gas Tip
Lava

GAS PILLAR AND TIPS

(CUTS FULL SIZE)

	Per Gross
No. 5481. Gas Pillar	\$2.00
No. 5495. 3 Ft. Lava Gas Tip	2.00
No. 5496. 4 Ft. Lava Gas Tip	2.00
No. 5497. 5 Ft. Lava Gas Tip	2.00

BURNER CUPS

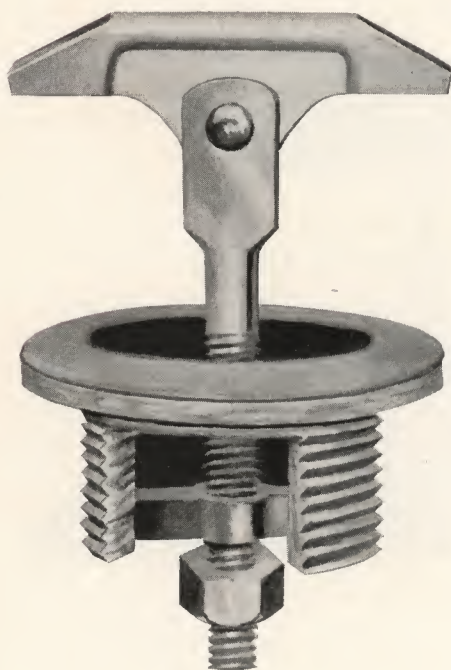
(CUTS FULL SIZE)



No. 5501. Plain. Heavy Weight
\$2.80 Per Gross



No. 5502. Fancy. Light Weight
\$2.20 Per Gross



CLOSET REPAIR

1¼ Inches

(CUT FULL SIZE)

	Per Doz.
No. 5522. Closet Repair.....	\$11.00

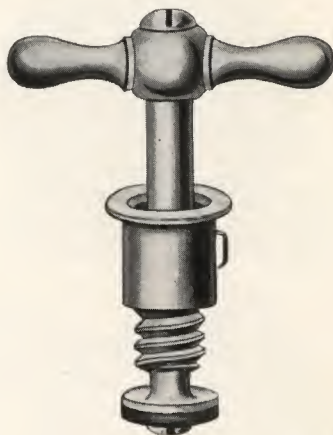
BOILER REPAIRS

(CUT FULL SIZE OF NO. 5531)



	Per Doz.
No. 5531. $\frac{3}{16}$ Inch Bolt.....	\$3.00
No. 5532. $\frac{1}{4}$ Inch Bolt.....	3.60

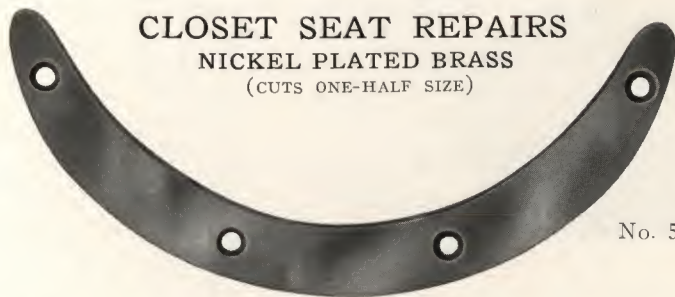
NOTE.—No. 5531 is mostly used and will be sent unless otherwise specified.

BIBB REPAIRS

	Per Doz.
No. 5541. $\frac{3}{8}$ Inch Plain Brass...	\$4.80
No. 5542. $\frac{1}{4}$ Inch Plain Brass...	4.80
No. 5543. $\frac{5}{8}$ Inch Plain Brass...	4.80
No. 5551. $\frac{3}{8}$ Inch Nickel Plated Brass	6.00
No. 5552. $\frac{1}{2}$ Inch Nickel Plated Brass	6.00
No. 5553. $\frac{5}{8}$ Inch Nickel Plated Brass	6.00

CLOSET SEAT REPAIRS**NICKEL PLATED BRASS**

(CUTS ONE-HALF SIZE)



No. 5558



No. 5559

	Per Doz.
No. 5558. Closet Seat Repair (Without Rubber Bumpers)	\$8.00
No. 5559. Closet Seat Repair (With Rubber Bumpers)	9.00

NOTE.—Above prices are complete with Nickel Plated Brass Screws.



COPPER FLOATS SOLDERED

Prices do not include Rods.

Spuds are $\frac{1}{4}$ Inch x 20 Threads

		Per Doz.
No. 5580.	2 Inches Soldered Copper Float	\$4.00
No. 5581.	2½ Inches Soldered Copper Float	4.50
No. 5582.	3 Inches Soldered Copper Float	5.00
No. 5583.	4 Inches Soldered Copper Float	5.50
No. 5584.	4½ Inches Soldered Copper Float	6.00
No. 5585.	5 Inches Soldered Copper Float	6.00
No. 5586.	6 Inches Soldered Copper Float	9.00

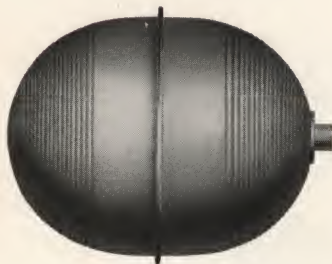


COPPER FLOAT SOLDERLESS

Price does not include Rods.

Spuds are $\frac{1}{4}$ Inch x 20 Threads

No. 5587.	5 Inches Solderless Copper Float	Per Doz. \$7.00
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COPPER FLOAT SOLDERLESS

Price does not include Rods

Spuds are $\frac{1}{4}$ Inch x 20 Threads

PLAIN COPPER

No. 5595.	4 Inches x 5 Inches Solderless Copper Float	Per Doz. \$5.50
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TINNED COPPER

No. 5597.	4 Inches x 5 Inches Tinned Solderless Copper Float	Per Doz. \$7.00
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FLOAT RODS— $\frac{1}{4}$ INCH X 20 THREADS



No. 5601. Float Rod. 9 Inches Long

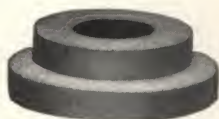
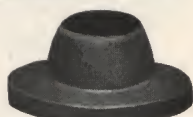


No. 5602. Float Rod. 12 Inches Long

No. 5601 Float Rod is the size mostly used. It is 9 Inches long and is threaded $\frac{1}{2}$ Inch on one end and $1\frac{1}{2}$ Inches on the other end. It can be reduced to an 8 Inch Float Rod by Cutting 1 Inch off the $1\frac{1}{2}$ Inch end.

No. 5602 Float Rod is 12 Inches long. It is threaded $2\frac{1}{2}$ Inches on one end and $4\frac{1}{2}$ Inches on the other end. It can be reduced to any desired length Float Rod by cutting off the ends.

No. 5601.	Float Rod. 9 Inches Long	Per Doz. \$1.20
No. 5602.	Float Rod. 12 Inches Long	1.80

HOPPER VALVE REPAIR SET**BUTTERWORTH MAKE**This Set fits McCambridge and Furlow Hopper Valves
(CUTS FULL SIZE)No. 5621
Rubber WasherNo. 5622
Leather CupNo. 5623
Leather WasherNo. 5624
Leather
WasherNo. 5625
Leather WasherNo. 5626
Leather Washer
(Two to a Set)No. 5627
Leather WasherNo. 5628
Bottom Brass SpringNo. 5629
Top Brass Spring

No. 5619.	Complete Hopper Valve Repair Set (including two Brass Springs)	Per Doz. Sets	\$6.00
No. 5620.	Hopper Valve Repair Set (without Brass Springs)		3.00

SEPARATE PARTS

		Per Doz. Pieces	
No. 5621.	Rubber Washer	\$1.00	
No. 5622.	Leather Cup	1.50	
No. 5623.	Leather Washer	.40	
No. 5624.	Leather Washer	.40	
No. 5625.	Leather Washer	.40	
No. 5626.	Leather Washer (two to a set)	.40	
No. 5627.	Leather Washer	1.00	
No. 5628.	Bottom Brass Spring	1.50	
No. 5629.	Top Brass Spring	1.50	

HOPPER VALVE REPAIR SET BUTTERWORTH MAKE

This Set fits McGucken and I X L Hopper Valves

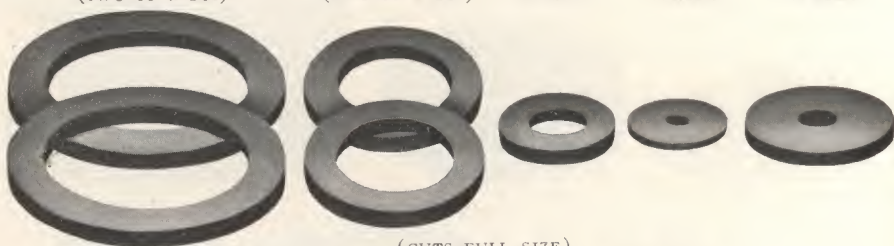
No. 5641
Leather Washer
(two to a set)

No. 5642
Leather Washer
(two to a set)

No. 5643
Leather
Washer

No. 5644
Leather
Washer

No. 5645
Rubber
Washer



(CUTS FULL SIZE)

No. 5646 Brass Spring



No. 5639.	Complete Hopper Valve Repair Set (including one Brass Spring)	Per Doz. Sets \$3.50
No. 5640.	Hopper Valve Repair Set (without Brass Spring)	2.00

SEPARATE PARTS

	Per Doz. Pieces		Per Doz. Pieces
No. 5641.	Leather Washer (two to a set) . \$0.40	No. 5644.	Leather Washer . \$0.40
No. 5642.	Leather Washer (two to a set) . .40	No. 5645.	Rubber Washer . .40
No. 5643.	Leather Washer40	No. 5646.	Brass Spring ... 1.50

HOPPER VALVE REPAIR SET BUTTERWORTH MAKE

This set fits Johnson Hopper Valve

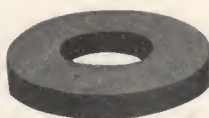
No. 5661
Rubber Ball

No. 5662
Leather Washer

No. 5663
Leather Washer (two to a set)



(CUTS FULL SIZE)



No. 5664 Brass Spring

No. 5659.	Complete Hopper Valve Repair Set (including one Brass Spring)	Per Doz. Sets \$3.50
No. 5660.	Hopper Valve Repair Set (without Brass Spring)	2.00

SEPARATE PARTS

	Per Doz. Pieces		Per Doz. Pieces
No. 5661.	Rubber Ball \$1.50	No. 5663.	Leather Washer (two to a set) . \$0.40
No. 5662.	Leather Washer . .40	No. 5664.	Brass Spring 1.50

HOPPER VALVE REPAIR SET

BUTTERWORTH MAKE

This Set fits Newell, Booth, Victor & Eureka Hopper Valves.

(CUTS FULL SIZE)

No. 5781
Rubber Ball



No. 5782
Leather Washer



No. 5783
Leather Cup



No. 5784
Fibre Washer



No. 5785
Fibre Washer



No. 5786
Fibre Washer
(Two to a Set)



No. 5787 Bottom Brass Spring



No. 5788 Top Brass Spring

		Per Doz. Sets
No. 5779.	Complete Hopper Valve Repair Set (including two Brass Springs)	\$8.00
No. 5780.	Hopper Valve Repair Set (without Brass Springs)	5.00

SEPARATE PARTS

		Per Doz. Pieces
No. 5781.	Rubber Ball	\$2.00
No. 5782.	Leather Washer	1.00
No. 5783.	Leather Cup	1.00
No. 5784.	Fibre Washer	.40
No. 5785.	Fibre Washer	.40
No. 5786.	Fibre Washer (Two to a Set)	.40
No. 5787.	Bottom Brass Spring	1.50
No. 5788.	Top Brass Spring	1.50

CHAMPION PUMP REPAIR SET

BUTTERWORTH MAKE

(CUTS FULL SIZE)

We make and guarantee these Repairs to fit and work properly in every respect.

No. 5901
Leather Cup

No. 5902
Leather Cup

No. 5903
Leather Cup

No. 5904
Leather
Stem Packing
(Three to a Set)

No. 5905
Leather Washer
(Two to a Set)

No. 5906
Leather Washer



No. 5907
Rubber Cushion

No. 5908
Rubber Seat

No. 5909
Rubber Tit Valves
(Two to a Set)

No. 5910
Rubber Diaphragm

No. 5911
Rubber Cushion

No. 5912
Fibre Washer

No. 5913
Fibre Washer

No. 5914
Wire

No. 5898. Champion Pump Repair Set (Complete as illustrated).....Per Doz. Sets \$14.00

SEPARATE PARTS

	Per Doz. Pieces
No. 5901. Leather Cup	\$2.00
No. 5902. Leather Cup	3.00
No. 5903. Leather Cup	4.00
No. 5904. Leather Stem Packing (Three to a Set) .....	.70
No. 5905. Leather Washer (Two to a Set) .....	.30

	Per Doz. Pieces
No. 5906. Leather Washer	\$0.30
No. 5907. Rubber Cushion .....	.40
No. 5908. Rubber Seat .....	.40
No. 5909. Rubber Tit Valve (Two to a Set) .....	.50
No. 5910. Rubber Diaphragm	2.00

	Per Doz. Pieces
No. 5911. Rubber Cushion	\$0.80
No. 5912. Fibre Washer .....	.40
No. 5913. Fibre Washer .....	.40
No. 5914. Wire .....	.20

LITTLE WONDER PUMP REPAIR SET
BUTTERWORTH MAKE

(CUTS FULL SIZE)

BUTTERWORTH MAKE

We make and guarantee these Repairs to fit and work properly in every respect.

No. 5971
eather Cup

No. 5972
Leather Cup

No. 5973
Leather Cup
(Three to a Set)

No. 5974
Leather WasherNo. 5975
Leather Washer

No. 5977
Leather Washer
(Two to a Set)

No. 5979
Rubber Thomas

No. 5980
Rubber WasherNo. 5981
Rubber WasherNo. 5982
Rubber WasherNo. 5976 L
ber Washer

Leather Washer

No. 5978 Leather Washer

No. 5986 Wire

No. 5968. Little
Per Doz.

No.	Description	Prices
No. 5971.	Leather Cup	\$2.00
No. 5972.	Leather Cup	3.00
No. 5973.	Leather Cup (Three to a Set) ..	.70
No. 5974.	Leather Washer .....	.40
No. 5975.	Leather Washer .....	.40
No. 5976.	Leather Washer .....	.40

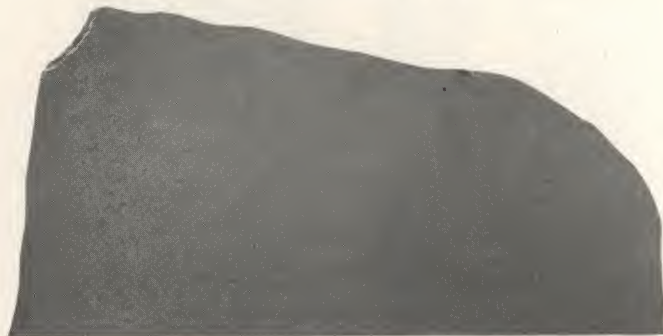
No. 5984 Rubber Washer
as illustrated) Per Doz.
RTS Per Doz.

No. 5977.	Leather Washer	.....
No. 5978.	Leather Washer	.....	.40
No. 5979.	Rubber Washer	.....	.50
No. 5980.	Rubber Washer	.....	.40
No. 5981.	Rubber Washer40
No. 5982.	Rubber Washer40

No. 5985	Rubber Diaphragm	4.00
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Rubber Washer	\$0.40
Rubber Washer40
Rubber Diaphragm	2.00
Wire20

SHEET LEATHER



We handle two kinds of Sheet Leather. One is our No. 5991, like the illustration. Pieces are about 18 Inches long x 6 Inches to 8 Inches wide. It is treated with oil and is pliable. It varies in thickness from $\frac{1}{8}$ Inch to $\frac{3}{16}$ Inch.

The other is our No. 5992, a harder and firmer leather in pieces from 3½ Inches square to 6 Inches square. We use this grade to punch our Lower Valves and Leather Plungers illustrated on pages 116 and 117. It varies in thickness from $\frac{1}{8}$ Inch to $\frac{3}{16}$ Inch.

Per Pound

No. 5991. Soft Oil Treated Leather	\$1.40
No. 5992. Hard Leather	1.20

LEATHER CUPS



NOTE.—Soft Leather Cups are illustrated on page 122.

Outside
Diameter

Per Doz.

No. 6001.	$\frac{7}{8}$ In.	.....	\$0.80
No. 6003.	1 In.	.....	.80
No. 6005.	1¼ In.	.....	.80
No. 6007.	1½ In.	.....	1.00
No. 6009.	1¾ In.	.....	1.10
No. 6011.	2 In.	.....	1.20
No. 6013.	2¼ In.	.....	1.30
No. 6015.	2½ In.	(For No. 1 Pump).....	1.50
No. 6017.	2¾ In.	.....	1.70
No. 6019.	3 In.	(For No. 2 Pump).....	2.00
No. 6021.	3¼ In.	.....	2.20
No. 6023.	3½ In.	(For No. 3 Pump).....	3.00
No. 6025.	3¾ In.	.....	3.40
No. 6027.	4 In.	(For No. 4 Pump).....	3.80
No. 6033.	5 In.	.....	6.00

LEATHER LOWER
VALVES

Outside Diameter

Diameter
of Flap

Per Doz.

No. 6047.	2¼ In.	1¼ In.	.....	\$1.00
No. 6048.	2½ In.	1½ In.	.....	1.00
No. 6050.	3 In.	1¾ In.	.....	1.30
No. 6051.	3¼ In.	2 In.	(No. 1 Pump).....	1.50
No. 6062.	3½ In.	2¼ In.	(No. 2 Pump).....	1.60
No. 6073.	3¾ In.	2½ In.	(No. 3 Pump).....	2.00
No. 6084.	4 In.	2¾ In.	(No. 4 Pump).....	2.40
No. 6086.	4½ In.	3 In.	.....	2.70

LEATHER PLUNGERS



		Outside Diameter		Per Doz.
No. 6087.	Leather Plunger	2¼ Inches	.....	\$1.00
No. 6088.	Leather Plunger	2½ Inches	.....	1.00
No. 6090.	Leather Plunger	3 Inches	.....	1.30
No. 6091.	Leather Plunger	3¼ Inches	No. 1 Pump.....	1.50
No. 6102.	Leather Plunger	3½ Inches	No. 2 Pump.....	1.60
No. 6113.	Leather Plunger	3¾ Inches	No. 3 Pump.....	2.00
No. 6124.	Leather Plunger	4 Inches	No. 4 Pump.....	2.40
No. 6126.	Leather Plunger	4½ Inches	.....	2.70

SPECIAL LEATHER WASHER

(CUT FULL SIZE)



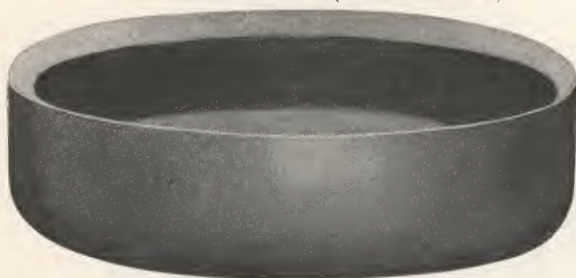
Special Leather Washer is $\frac{7}{8}$ Inch outside diameter x $\frac{7}{16}$ Inch hole x $\frac{1}{8}$ Inch thick.

No. 6130.	Special Leather Washer.....	Per 100 \$1.50
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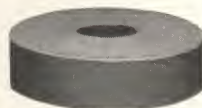
REGISTER HYDRANT REPAIR SET

BUTTERWORTH MAKE

(CUTS FULL SIZE)



No. 6151 Leather Cup

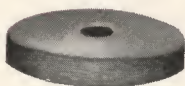
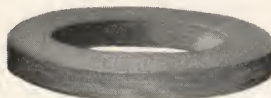
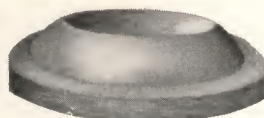
No. 6152 Rubber Disc
Per Doz.
Pieces

No. 6151.	Register Hydrant Leather Cup	\$2.00
No. 6152.	Register Hydrant Rubber Disc	1.00

MURDOCK HYDRANT REPAIR SET

BUTTERWORTH MAKE

(CUTS FULL SIZE)

No. 6201
Leather WasherNo. 6202
Leather WasherNo. 6203
Leather Washer

No. 6200.	Complete Set (3 Pieces)	Per Doz. Sets
		\$1.50

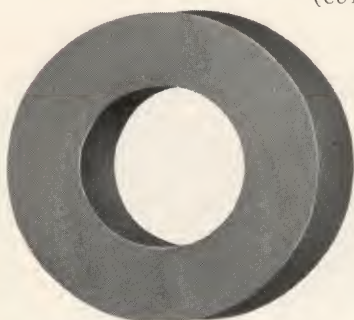
SEPARATE PARTS

No. 6201.	Leather Washer	Per Doz. Pieces
No. 6202.	Leather Washer	\$0.30
No. 6203.	Leather Flange .....	.40
		1.00

QUEREN HYDRANT WASHERS

BUTTERWORTH MAKE

(CUTS FULL SIZE)



No. 6205



No. 6207

No. 6205.	Queren Hydrant Rubber Washer	Per 100 Pieces
No. 6207.	Queren Hydrant Leather Washer	\$9.00
		4.00

ECLIPSE HYDRANT SET BUTTERWORTH MAKE (CUTS FULL SIZE)



No. 6210	Leather Flange	No. 6211	Leather Cup (Two to a Set)	No. 6212	Leather Washer	Per Doz. Sets
No. 6209.	Complete Set (Four Pieces)					\$2.00

SEPARATE PARTS

No. 6210.	Leather Flange	Per Doz. Pieces
No. 6211.	Leather Cup (Two to a Set)	\$1.40
No. 6212.	Leather Washer .....	.80
		.30

TOTAL ECLIPSE HYDRANT SET BUTTERWORTH MAKE (CUTS FULL SIZE)



No. 6215	Leather Cup (Two to a Set)	No. 6216	Leather Cup	No. 6217	Leather Washer	Per Doz. Sets
No. 6214.	Complete Set (Four Pieces)					\$2.00

SEPARATE PARTS

No. 6215.	Leather Cup (Two to a Set)	Per Doz. Pieces
No. 6216.	Leather Cup	\$0.80
No. 6217.	Leather Washer	1.00
		.30

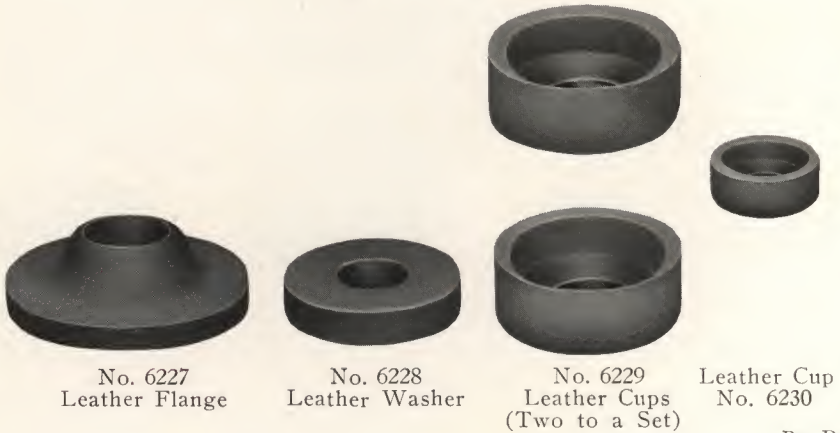
RUBBER VALVE FOR SELF-CLOSING TYPE TOTAL ECLIPSE HYDRANT BUTTERWORTH MAKE (CUT FULL SIZE)



No. 6219.	Rubber Valve	Per Doz.
		\$1.20

CHALLENGE HYDRANT SET**BUTTERWORTH MAKE**

(CUTS FULL SIZE)



No. 6227	Leather Flange		
No. 6228	Leather Washer		
No. 6229	Leather Cups (Two to a Set)		
	Leather Cup No. 6230		
		Per Doz. Sets	
No. 6226.	Complete Set (Five Pieces)		\$3.00

SEPARATE PARTS

		Per Doz. Pieces	
No. 6227.	Leather Flange		\$1.40
No. 6228.	Leather Washer		.30
No. 6229.	Leather Cups (Two to a Set)		.80
No. 6230.	Leather Cup		.70

GOULDS' CRESCENT HYDRANT SET**BUTTERWORTH MAKE**

(CUTS FULL SIZE)



No. 6233	Leather Cup	No. 6234	Leather Washer		
				Per Doz. Sets	
No. 6232.	Complete Set (Two Pieces)				\$0.80

SEPARATE PARTS

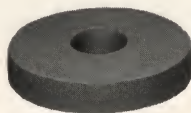
		Per Doz. Pieces	
No. 6233.	Leather Cup		\$0.70
No. 6234.	Leather Washer		.30

GOULDS' STAR HYDRANT SET**BUTTERWORTH MAKE**

(CUTS FULL SIZE)



No. 6237 Leather Cup



No. 6238 Leather Washer

	Per Doz. Sets
No. 6236. Complete Set (Two Pieces)	\$1.00

SEPARATE PARTS

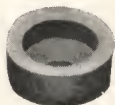
	Per Doz. Pieces
No. 6237. Leather Cup	\$0.90
No. 6238. Leather Washer .....	.30

LEATHER BALL COCK CUPS

(CUTS FULL SIZE)



No. 6241



No. 6242



No. 6243



No. 6244

	Per 100
No. 6241. Leather Ball Cock Cup	\$5.00
No. 6242. Leather Ball Cock Cup	5.00
No. 6243. Leather Ball Cock Cup	5.00
No. 6244. Leather Ball Cock Cup	5.00

NOTE.—No. 6242 is the size mostly used and will be sent unless otherwise specified. It fits Success Ball Cock. ,

SOFT LEATHER CUPS

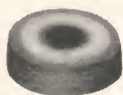
These cups are similar to those on page 116, but are made of soft, thin leather.



	Outside Diameter	Per Doz.
No. 6246.	$\frac{7}{8}$ Inch	\$0.70
No. 6248.	1 Inch	1.30
No. 6250.	$1\frac{1}{8}$ Inches	2.00
No. 6252.	$1\frac{1}{4}$ Inches	2.20
No. 6254.	$1\frac{1}{2}$ Inches	2.40
No. 6256.	$1\frac{3}{4}$ Inches	2.70
No. 6258.	2 Inches	3.00
No. 6260.	$2\frac{1}{4}$ Inches	3.50
No. 6264.	$2\frac{1}{2}$ Inches	4.00
No. 6266.	3 Inches	5.00

LEATHER SINK BOLT WASHER

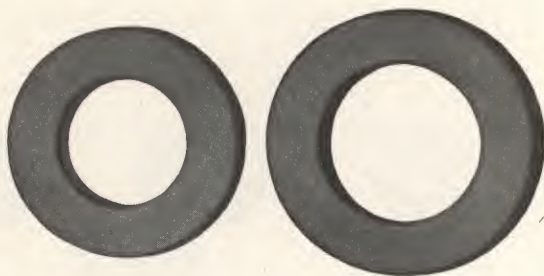
(CUT FULL SIZE)



No. 7251.	Leather Sink Bolt Washer	Per 1000 \$3.00
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PAPER BOILER WASHERS

(CUTS FULL SIZE)



No. 7261.	$\frac{1}{2}$ Inch Paper Boiler Washer	Per 1000 \$4.00
No. 7272.	$\frac{3}{4}$ Inch Paper Boiler Washer	4.50

SPECIAL PAPER BOILER WASHER

No. 7276.	Special Paper Boiler Washer ($1\frac{5}{16}$ Inch Hole x $1\frac{3}{8}$ Inches Outside Diameter)	Per 1000 \$4.50
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